PLAINFIELD COMMUNITY **SCHOOL CORPORATION** PLAINFIELD OUTBUILDINGS PLAINFIELD, IN

100% CONSTRUCTION DOCUMENTS

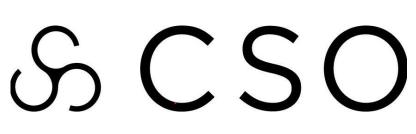
CLARKS CREEK ELEMENTARY SCHOOL 401 ELM DR., PLAINFILED, IN 46168

BRENTWOOD ELEMENTARY SCHOOL 1630 W OLIVER AVE, PLAINFIELD, IN 46168

CONSTRUCTION MANAGER



ARCHITECT



8831 Keystone Crossing, Indianapolis, IN 46240 317.848.7800 | csoinc.net

MAY 08, 2025

SHEET INDEX

	SHEET LIST CIVIL
Sheet Number	Sheet N
C100	TITLE SHEET
C101-C102	EXISTING TOPOGRAPHY AND DEMO PLAN
C103	OVERALL PLAN
C110-C111	SITE DEVELOPMENT PLAN
C400-C401	EROSION CONTROL PLAN
1-29	TOWN OF PLAINFIELD STANDARDS

SHEET LIST STRUCTURAL Name

Sheet Number		Sheet I
001	GENERAL STRUCTURAL NOTES	
002	GENERAL STRUCTURAL NOTES & SCHEDULES	
201	FOUNDATION AND ROOF FRAMING PLANS	
401	TYPICAL DETAILS	
402	TYPICAL DETAILS	
701	SECTIONS AND DETAILS	

SHEET LIST ARCHITECTURAL

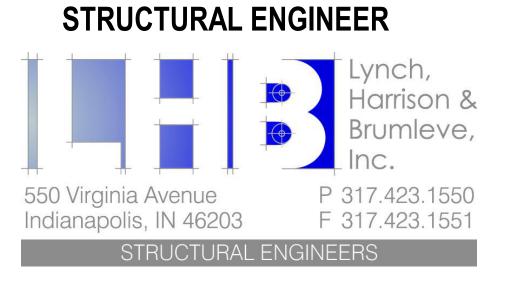
Sheet Number	Sheet Na
201	FLOOR PLANS, CEILING PLANS, AND ROOF PLANS - CLARKS CR
202	FLOOR PLANS, CEILING PLANS, AND ROOF PLANS - BRENTWOO
203	WALL SECTIONS

SHEET LIST ELECTRICAL

Sheet Number	Sheet Na
E001	SYMBOLS, ABBREVIATIONS, & GENERAL NOTES - ELECTRICAL
E100	SITE PLAN - CLARKS CREEK - ELECTRICAL
E101	SITE PLAN - BRENTWOOD - ELECTRICAL
E201	OUTBUILDING PLANS - ELECTRICAL
E601	SCHEDULES - ELECTRICAL

MECHANICAL/ELECTRICAL/PLUMBING ENGINEER

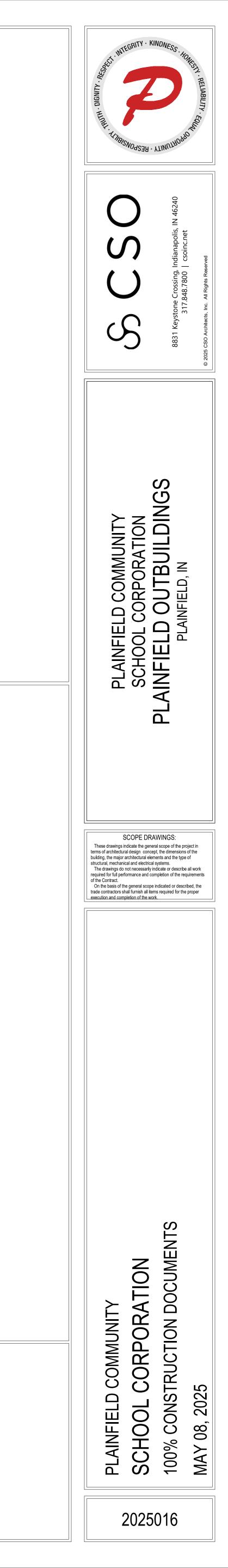




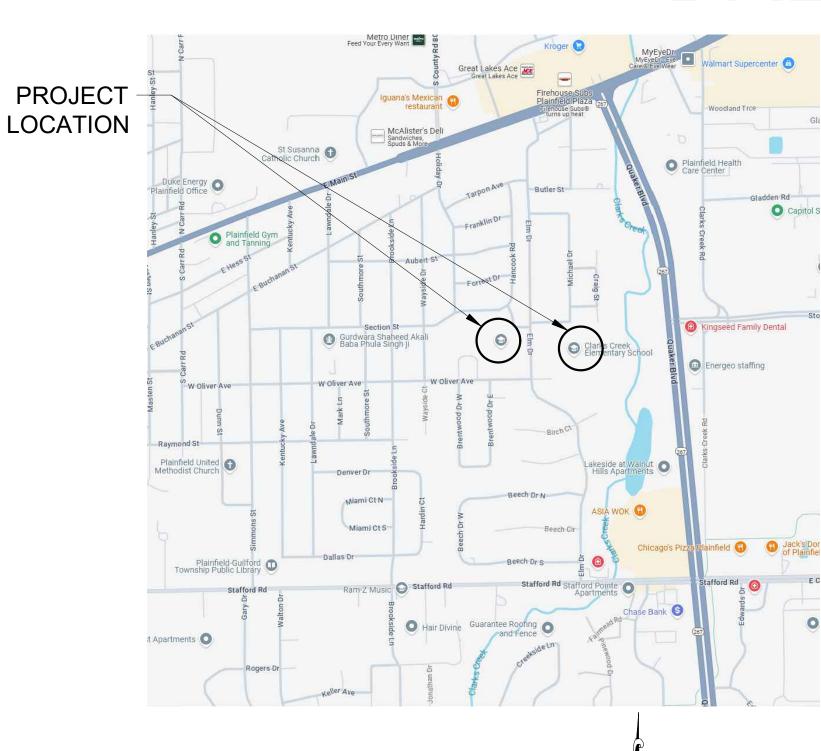


Name

CIVIL ENGINEER



BRENTWOOD & CLARKS CREEK ELEMENTARY -STORAGE BUILDINGS PROJECT



VICINITY MAP

NO SCALE

OPERATING AUTHORITIES

CenterPoint Energy 1995 E. Main Street Danville, IN 46122

317-718-3617 ELECTRIC Duke Energy 5095 E. Main Street P.O. Box 29

GAS

Danville, IN 46122 317-745-4481 SANITARY Town of Plainfield 986 S. Center Street Plainfield, IN 46168

317-839-3490

SCHOOL DISTRICT Plainfield Community School Corporation 985 Longfellow Drive Plainfield, IN 46168 317-839-2578

FIBER OPTIC Zayo Bandwith 722 N. High School Road Indianapolis, IN 46214 765-341-1199

COMMUNICATIONS Windstream 4005 N Rodney Parham Road Little Rock, AK 72212 800-289-1901

STORM Town of Plainfield 986 S. Center Street Plainfield, IN 46168 317-839-3490

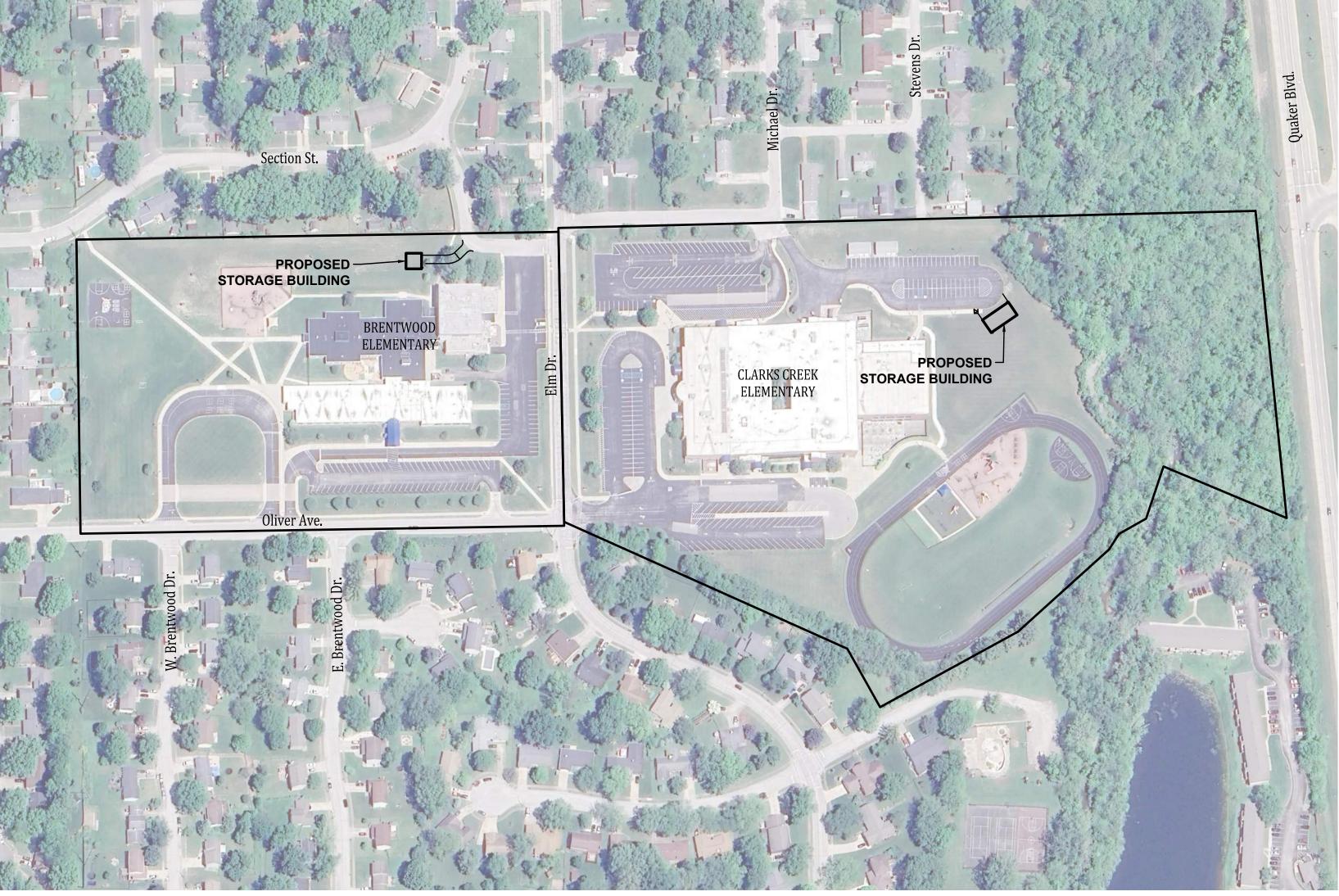
CABLE Comcast of Indiana P.O. Box 20911 Indianapolis, IN 46220 317-594-8509

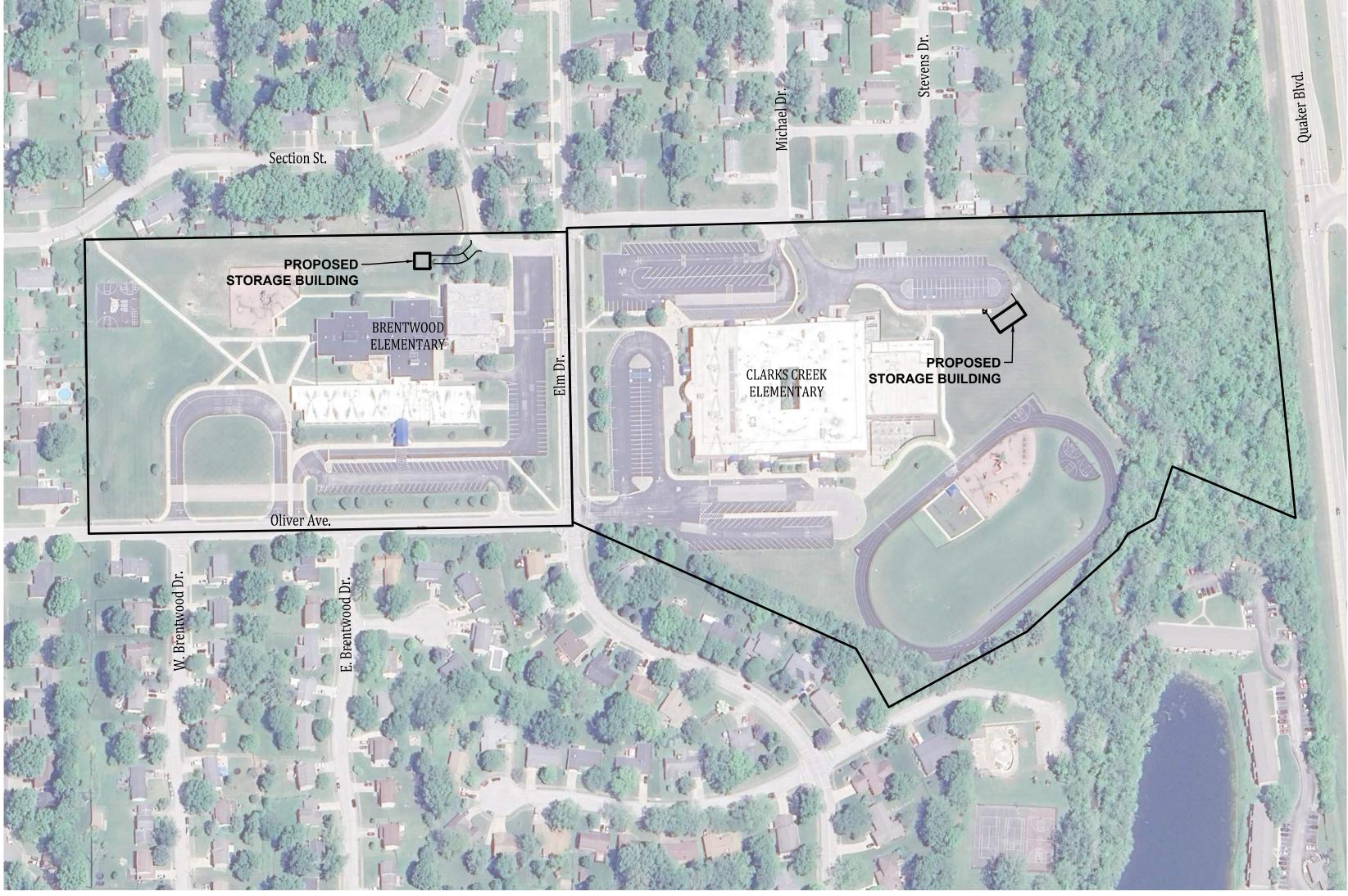
WATER Town of Plainfield 986 S. Center Street Plainfield, IN 46168 317-839-3490

COMMUNICATIONS AT&T 240 N. Meridian Street Indianapolis, IN 46207 317-722-2299

FIRE DEPARTMENT Plainfield Fire Territory 591 Moon Road Plainfield, IN 46168 317-839-6939







NUMBER	



NW 1/4, SEC. 36-T15N-R1E, HENDRICKS COUNTY, GUILFORD TOWNSHIP, PLAINFIELD, INDIANA PROJECT ADDRESS: BRENTWOOD - 1630 OLIVER AVE., CLARKS CREEK - 401 ELM DR. ZONED: S



PLANS PREPARED FOR: CSO ARCHITECTS 8831 KEYSTONE CROSSING INDIANAPOLIS, IN 46240 317-848-7800 CONTACT: BRET HITE EMAIL: bhite@csoinc.net



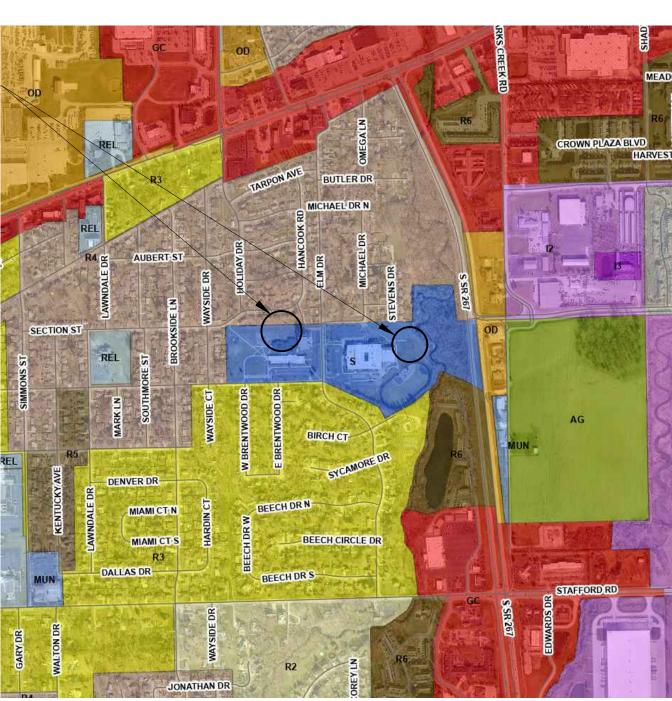
OWNER:

PLAINFIELD COMMUNITY SCHOOL CORPORATION 985 LONGFELLOW DRIVE PLAINFIELD, IN 46168 317-839-2578 CONTACT: MARK SHAYOTOVICH EMAIL: mshayotovich@plainfield.k12.in.us

SITE	MAP
NO S	CALE

			SHEET INDEX		
		SHEET NO	DESCRIPTION		
		C100	TITLE SHEET		
		C101-C102	EXISTING TOPOGRAPHY AND DEMO PLAN		
REVISIONS		C103	OVERALL PLAN		
REVISIONS		C110-C111	SITE DEVELOPMENT PLAN		
DESCRIPTION	DATE	C400-C401	EROSION CONTROL PLAN		
		1-29	TOWN OF PLAINFIELD STANDARDS		

LOCATION



LOCATION MAP NO SCALE



PLAINFIELD, IN 46168 BUS: (317) 707-3700, FAX: (317) 707-3800 E-MAIL: Banning@BanningEngineering.com WEB: www.BanningEngineering.com

CONTACT: RYAN LINDLEY EMAIL: rlindley@banning-eng.com

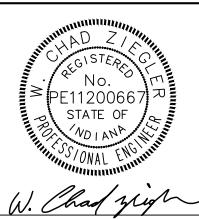
CONSTRUCTION DOCUMENTS

_ DATE: 05-19-2025

PROJECT MANAGER: <u>Ryan R. Lindley</u>

THESE PLANS ARE NOT TO BE CONSIDERED FINAL OR TO BE UTILIZED FOR CONSTRUCTION UNLESS SIGNED AND DATED BY THE APPROPRIATE BANNING ENGINEERING PROJECT MANAGER.

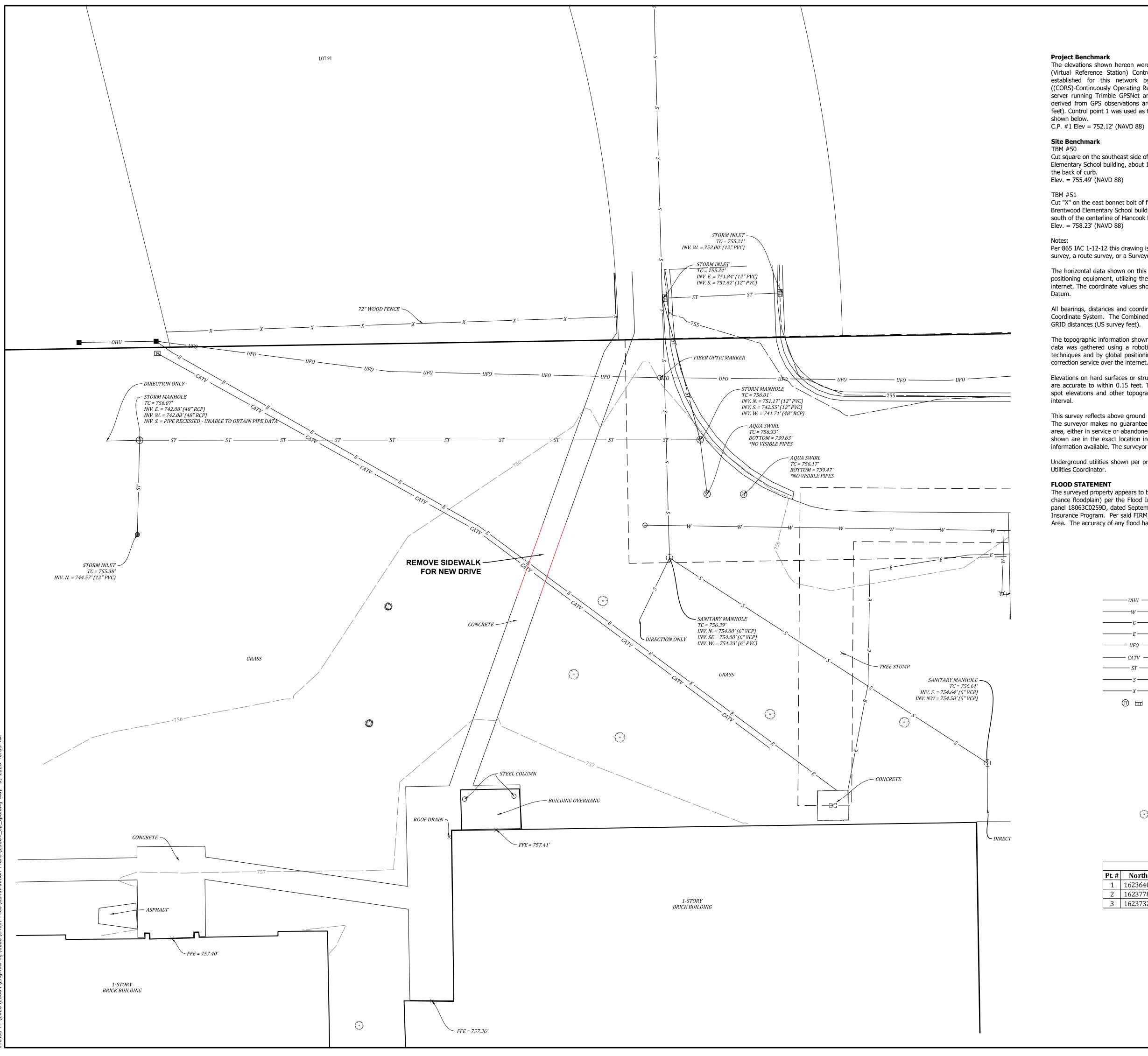
THESE PLANS ARE NOT INTENDED TO BE REPRESENTED AS A RETRACEMENT OR ORIGINAL BOUNDARY SURVEY, A ROUTE SURVEY, OR A SURVEYOR LOCATION REPORT.



CERTIFIED BY:

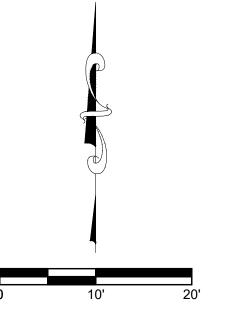
Date: 05-06-2025 Project No: 25064 Sheet No:

C100



Project Benchmark

The elevations shown hereon were derived from GPS observation using NAVD 88 Datum from the VRS (Virtual Reference Station) Control Network established by Seiler Company. The elevations were established for this network by continuously streaming data through fixed reference stations ((CORS)-Continuously Operating Reference Station) distributed throughout the network area to a central server running Trimble GPSNet and RTKNet software. Through previous survey work, the elevations derived from GPS observations are relatively accurate to published benchmarks (usually within +/-0.2 feet). Control point 1 was used as the benchmark and levels were ran through the temporary benchmarks



Cut square on the southeast side of concrete light base located about 115 feet north of the Clarks Creek Elementary School building, about 100 feet east of the centerline of Michael Drive and 2.5 feet north of

Cut "X" on the east bonnet bolt of fire hydrant located about 51 feet north of the northeast corner of the Brentwood Elementary School building, about 112 feet west of the centerline of Elm Drive, about 31 feet south of the centerline of Hancook Road.

Per 865 IAC 1-12-12 this drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a Surveyor Location Report.

The horizontal data shown on this exhibit is based upon standard radial survey techniques and by global positioning equipment, utilizing the VRS Network, a real-time kinematic (RTK) correction service over the internet. The coordinate values shown are in Indiana State Plane West Zone on the 1983 North American

All bearings, distances and coordinates are referenced to the Indiana State Plane West Zone (NAD 83) Coordinate System. The Combined Scale Factor for this project is 1.000000. Distances shown hereon are GRID distances (US survey feet).

The topographic information shown hereon was obtained in the field during March 2025. The topographic data was gathered using a robotic total station and data collector applying standard radial surveying techniques and by global positioning equipment, utilizing the VRS Network, a real-time kinematic (RTK) correction service over the internet.

Elevations on hard surfaces or structures are accurate to within 0.05 feet, elevations on natural surfaces are accurate to within 0.15 feet. The contours shown hereon were plotted based upon interpolation of spot elevations and other topographic information and are accurate to within one half of the contour

This survey reflects above ground indications of utilities and information available from utility companies. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated, although they are located as accurately as possible from the information available. The surveyor has not physically located the underground utilities.

Underground utilities shown per private utility locates were provided internally via Banning Engineering's

The surveyed property appears to be located in Zone "X" (areas determined to be outside the 0.2% annual chance floodplain) per the Flood Insurance Rate Map (FIRM) for Hendricks County, Indiana, community panel 18063C0259D, dated September 25, 2009, Federal Emergency Management Agency, National Flood Insurance Program. Per said FIRM, this parcel does not lie within the boundary of a Special Flood Hazard Area. The accuracy of any flood hazard statement is subject to map scale uncertainty.

LEGEND **EXISTING** ------ OVERHEAD UTILITY LINE *W* WATER LINE G GAS LINE *_____E* ____ UNDERGROUND ELECTRIC LINE FO — UNDERGROUND FIBER OPTIC LINE CATV — UNDERGROUND CABLE TV LINE ST ----- STORM SEWER LINE -s ------ SANITARY SEWER LINE -x ----- FENCE (s) SANITARY SEWER STRUCTURES UTILITY POLE 💢 LIGHT POLE UTILITY VAULT WATER METER ELECTRIC TRANSFORMER び FIRE HYDRANT

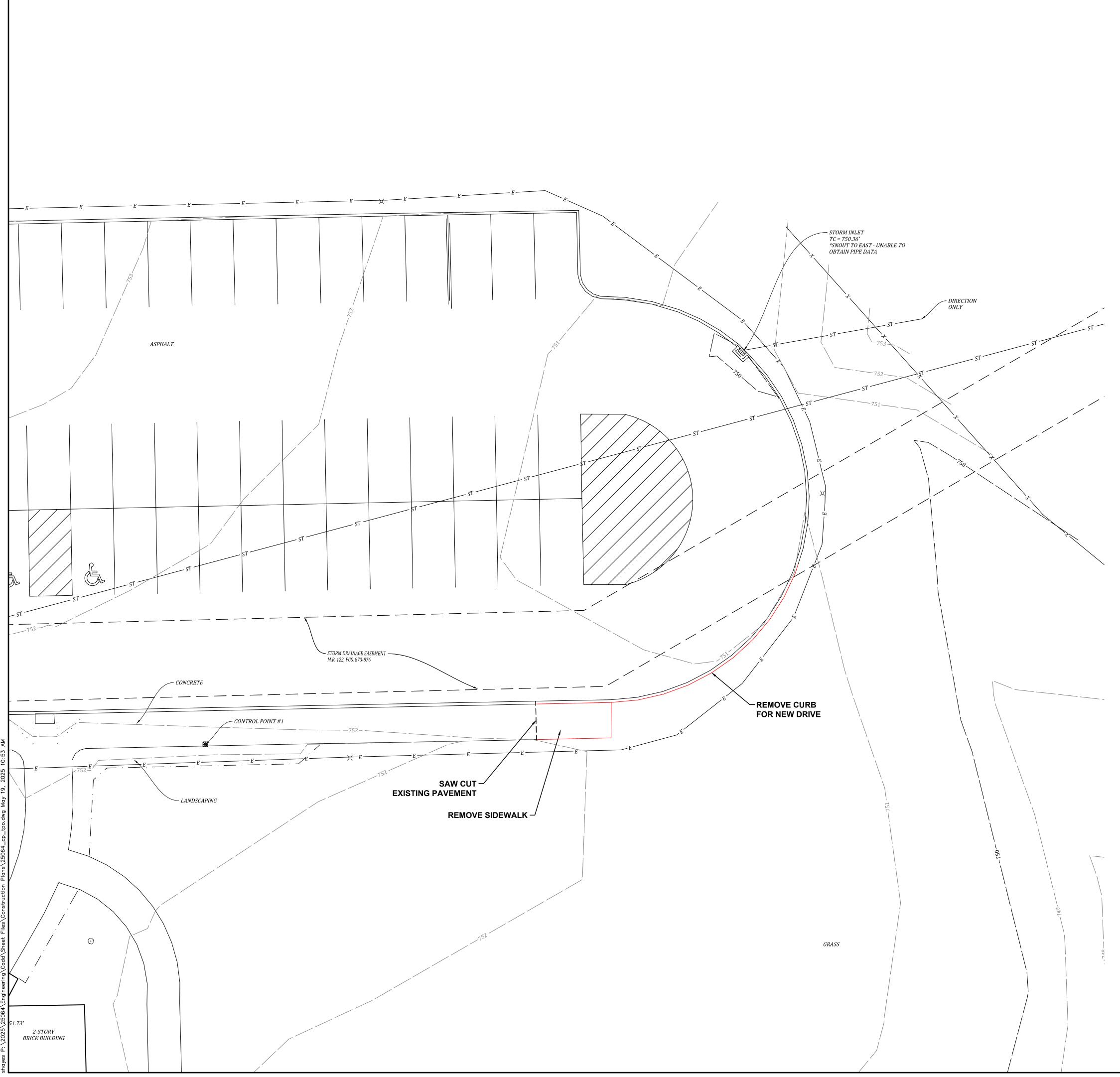
- SEWER CLEAN-OUT
- d SIGN
- TREE

	Control Point				
Pt. #	Northing	Easting	Elev.	Description	
1	1623640.709	3152139.164	752.12	Cut "X"	
2	1623778.087	3151727.105	758.85	Cut "X"	
3	1623732.377	3151305.536	756.51	Cut "X"	









Project Benchmark shown below. C.P. #1 Elev = 752.12' (NAVD 88)

Site Benchmark TBM #50 Cut square on the southeast side of concrete light base located about 115 feet north of the Clarks Creek Elementary School building, about 100 feet east of the centerline of Michael Drive and 2.5 feet north of the back of curb. Elev. = 755.49' (NAVD 88)

TBM #51 Cut "X" on the east bonnet bolt of fire hydrant located about 51 feet north of the northeast corner of the Brentwood Elementary School building, about 112 feet west of the centerline of Elm Drive, about 31 feet south of the centerline of Hancook Road. Elev. = 758.23' (NAVD 88)

Notes:

The horizontal data shown on this exhibit is based upon standard radial survey techniques and by global positioning equipment, utilizing the VRS Network, a real-time kinematic (RTK) correction service over the internet. The coordinate values shown are in Indiana State Plane West Zone on the 1983 North American Datum.

All bearings, distances and coordinates are referenced to the Indiana State Plane West Zone (NAD 83) Coordinate System. The Combined Scale Factor for this project is 1.000000. Distances shown hereon are GRID distances (US survey feet).

The topographic information shown hereon was obtained in the field during March 2025. The topographic data was gathered using a robotic total station and data collector applying standard radial surveying techniques and by global positioning equipment, utilizing the VRS Network, a real-time kinematic (RTK) correction service over the internet.

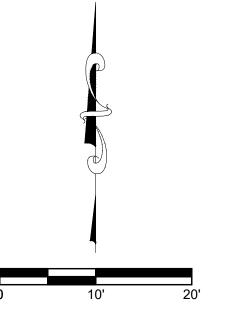
Elevations on hard surfaces or structures are accurate to within 0.05 feet, elevations on natural surfaces are accurate to within 0.15 feet. The contours shown hereon were plotted based upon interpolation of spot elevations and other topographic information and are accurate to within one half of the contour interval.

This survey reflects above ground indications of utilities and information available from utility companies. The surveyor makes no guarantee that the underground utilities shown comprise all such utilities in the area, either in service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated, although they are located as accurately as possible from the information available. The surveyor has not physically located the underground utilities.

Underground utilities shown per private utility locates were provided internally via Banning Engineering's Utilities Coordinator.

FLOOD STATEMENT The surveyed property appears to be located in Zone "X" (areas determined to be outside the 0.2% annual chance floodplain) per the Flood Insurance Rate Map (FIRM) for Hendricks County, Indiana, community panel 18063C0259D, dated September 25, 2009, Federal Emergency Management Agency, National Flood Insurance Program. Per said FIRM, this parcel does not lie within the boundary of a Special Flood Hazard Area. The accuracy of any flood hazard statement is subject to map scale uncertainty.

The elevations shown hereon were derived from GPS observation using NAVD 88 Datum from the VRS (Virtual Reference Station) Control Network established by Seiler Company. The elevations were established for this network by continuously streaming data through fixed reference stations ((CORS)-Continuously Operating Reference Station) distributed throughout the network area to a central server running Trimble GPSNet and RTKNet software. Through previous survey work, the elevations derived from GPS observations are relatively accurate to published benchmarks (usually within +/-0.2 feet). Control point 1 was used as the benchmark and levels were ran through the temporary benchmarks



Per 865 IAC 1-12-12 this drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a Surveyor Location Report.

LEGEND **EXISTING** ------ OVERHEAD UTILITY LINE *W* WATER LINE G GAS LINE *—E* — UNDERGROUND ELECTRIC LINE *FO* **UNDERGROUND FIBER OPTIC LINE** CATV — UNDERGROUND CABLE TV LINE ST ----- STORM SEWER LINE *— s* — SANITARY SEWER LINE —*x* — FENCE (ŝ) SANITARY SEWER STRUCTURES UTILITY POLE 💢 LIGHT POLE UTILITY VAULT WATER METER ELECTRIC TRANSFORMER び FIRE HYDRANT

- SEWER CLEAN-OUT
- d SIGN
- TREE

	Control Point				
Pt. #	Northing	Easting	Elev.	Description	
1	1623640.709	3152139.164	752.12	Cut "X"	
2	1623778.087	3151727.105	758.85	Cut "X"	
3	1623732.377	3151305.536	756.51	Cut "X"	

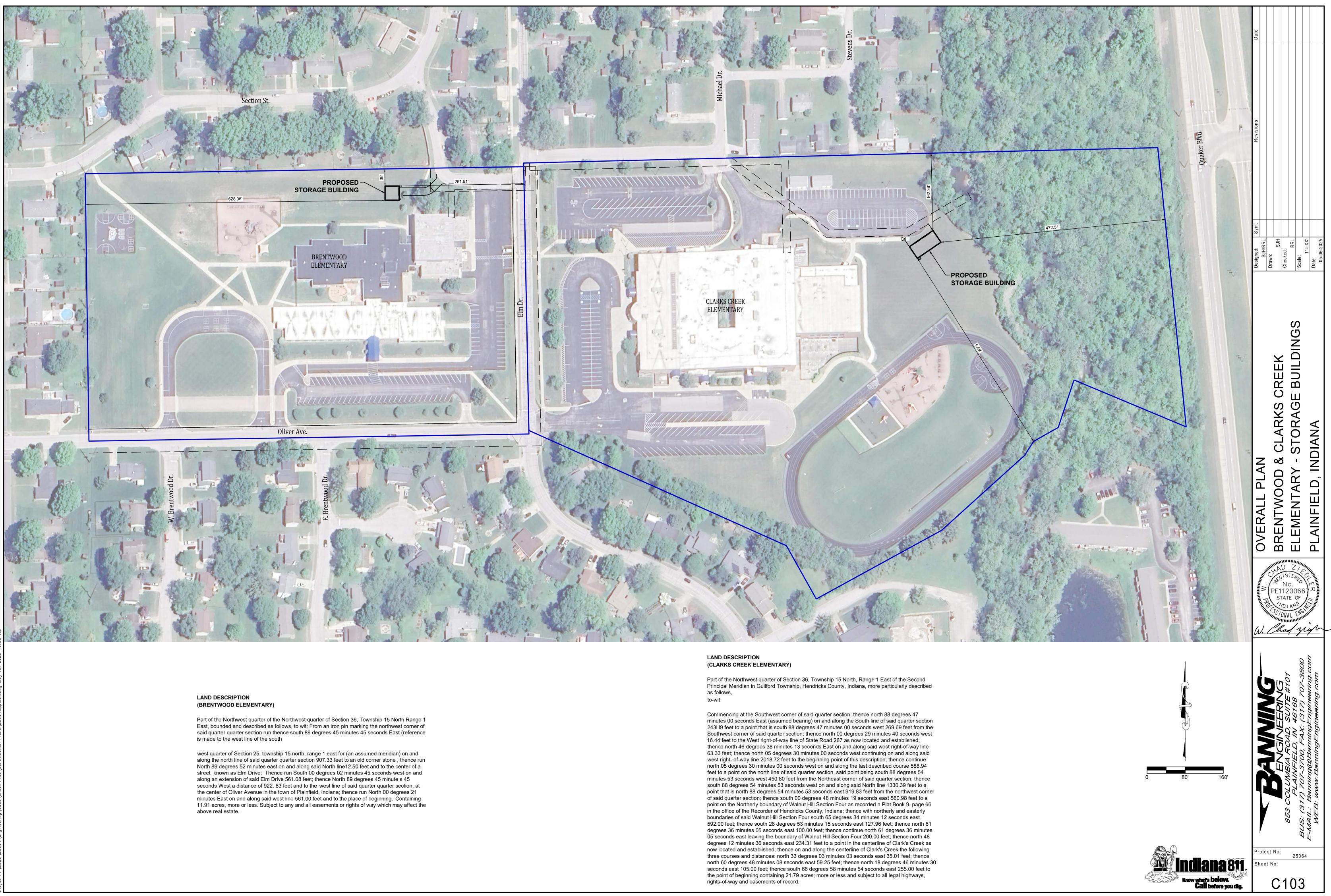


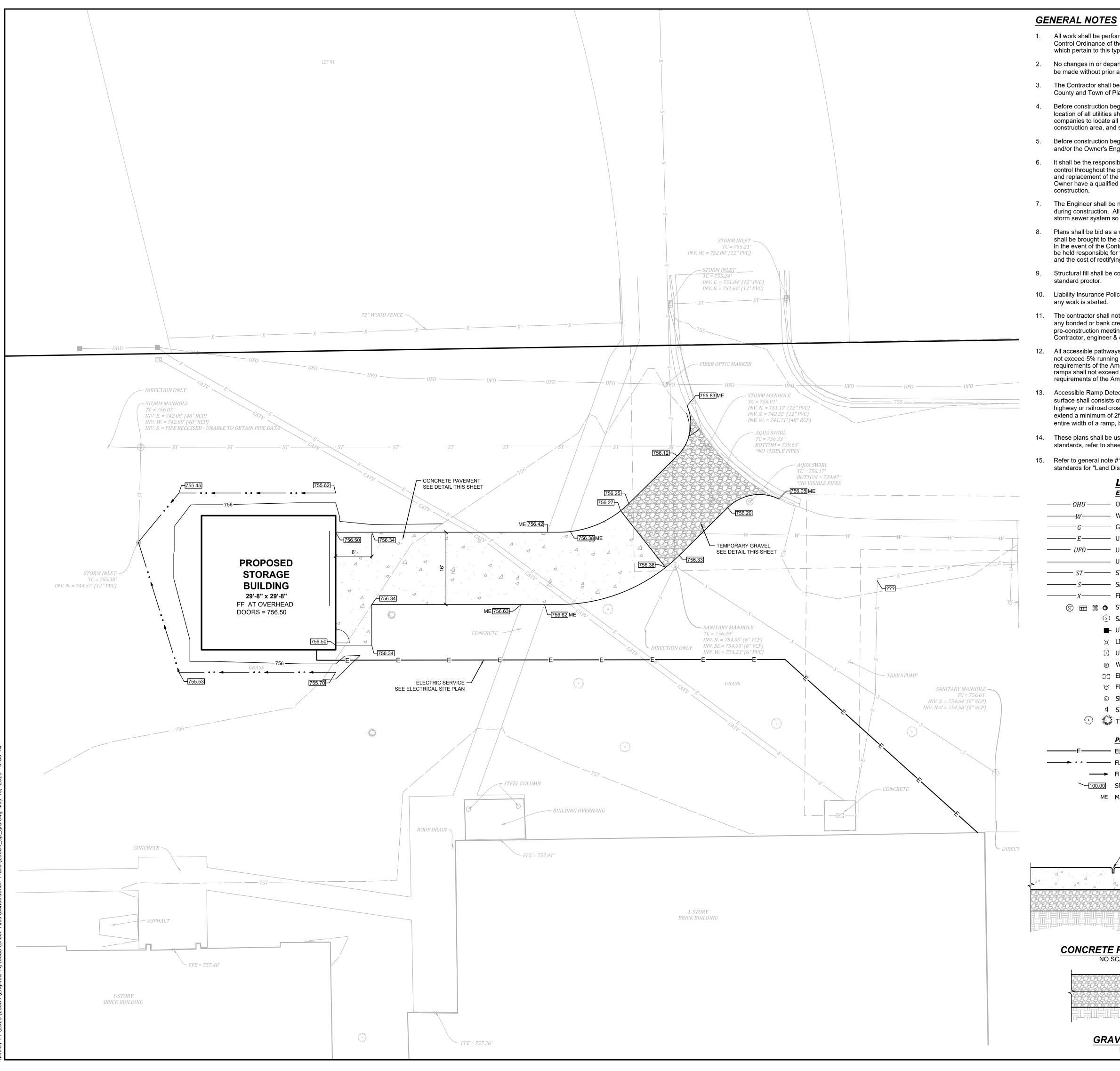
25064

C102

eet No:







1. All work shall be performed in conformance with the Subdivision Control Ordinance of the Town of Plainfield and all other ordinances which pertain to this type of work.

2. No changes in or departure from the plans or specifications shall be made without prior approval, in writing, by the Engineer.

3. The Contractor shall be responsible for obtaining all Federal, State, County and Town of Plainfield permits, or any other permits required.

Before construction begins, the Contractor shall field verify the location of all utilities shown on the plans, and contact all utility companies to locate all mains, conduits, service lines, etc., in the construction area, and shall protect all such utilities during construction.

Before construction begins, the Contractor shall notify the Owners, and/or the Owner's Engineer, so that an inspector may be present.

6. It shall be the responsibility of the Contractor to maintain quality control throughout the project; failure to do so may result in removal and replacement of the defective work. It is recommended that the Owner have a qualified inspector on the job site at all times during

7. The Engineer shall be notified of all field tile located on the site during construction. All such field tile shall be incorporated into the storm sewer system so that it remains in working condition.

8. Plans shall be bid as a working system. Any errors or omissions shall be brought to the attention of the Engineer prior to construction. In the event of the Contractor's failing to give such notice, they shall be held responsible for the results of any such errors or omissions, and the cost of rectifying the same.

9. Structural fill shall be compacted in maximum 6" lifts to 95%

10. Liability Insurance Policy shall be furnished to the Owner before

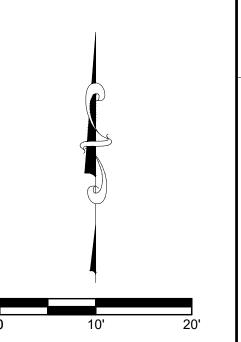
11. The contractor shall notify the Town of Plainfield at least 72 hours prior to any bonded or bank credit letter site improvements are installed. A pre-construction meeting shall be set up with the Town of Plainfield, Contractor, engineer & owner prior to any construction.

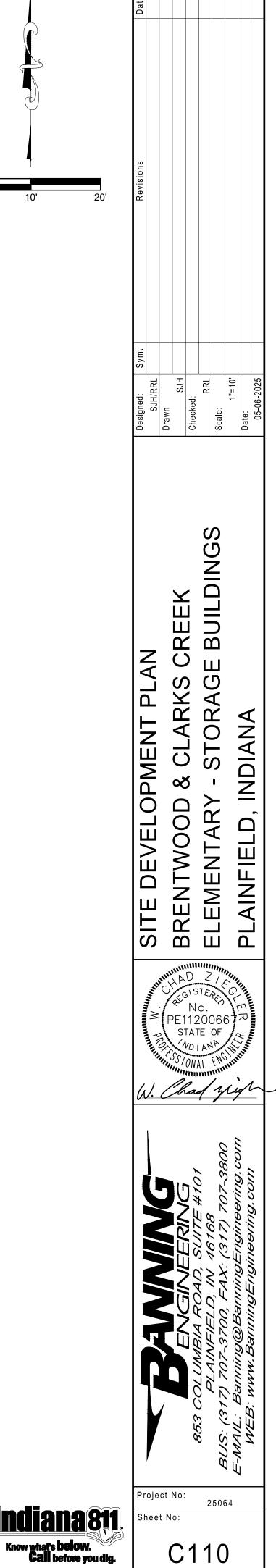
12. All accessible pathways, sidewalks and drive crossings shall not exceed 5% running slope and 2% cross slope or the latest requirements of the Americans with Disabilities Act (ADA). Accessible ramps shall not exceed 1/12 slope and 2% cross slope or the latest requirements of the Americans with Disabilities Act (ADA).

Accessible Ramp Detectable Warning Surface. A detectable warning surface shall consists of truncated domes and be placed at each street, highway or railroad crossing. The detectable warning surface shall extend a minimum of 2ft in the pedestrian travel and be placed the entire width of a ramp, blended transition, or turning space.

14. These plans shall be used in conjunction with Town of Plainfield standards, refer to sheet 1 of 29 for "directions for use."

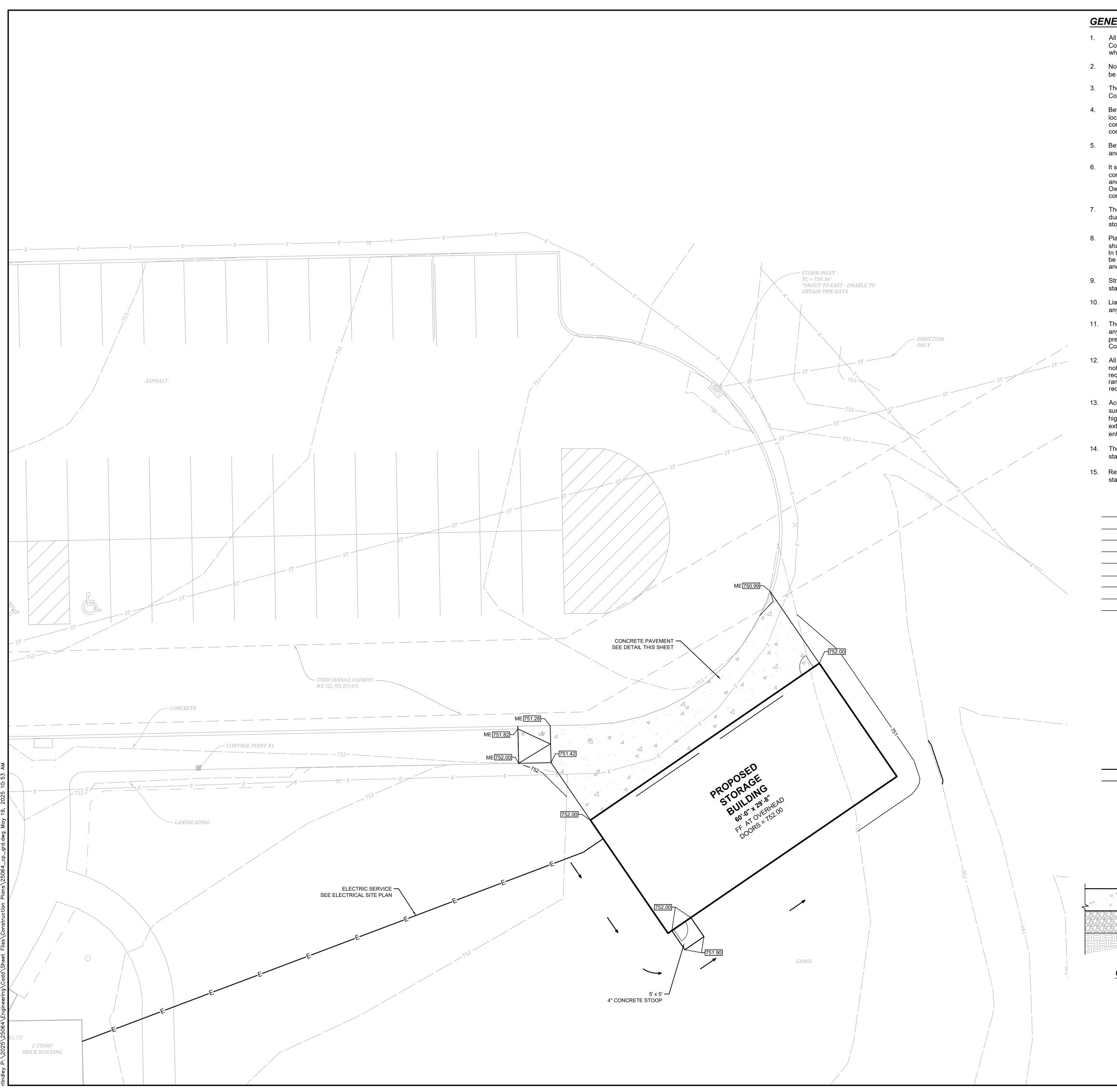
	e #11 on sheet 1 of 29 of the Town of Plainfield Disturbing Mitigation Options".
	LEGEND EXISTING
I	OVERHEAD UTILITY LINE
	WATER LINE
	GAS LINE
	UNDERGROUND ELECTRIC LINE
	UNDERGROUND FIBER OPTIC LINE
	UNDERGROUND CABLE TV LINE
	STORM SEWER LINE
	SANITARY SEWER LINE
	FENCE
	STORM SEWER STRUCTURES
•	SANITARY SEWER STRUCTURES UTILITY POLE
_	
×	
	UTILITY VAULT
() ()	WATER METER
	ELECTRIC TRANSFORMER
-	FIRE HYDRANT
© م	SEWER CLEAN-OUT
d M ^M 4	SIGN
	TREE
	PROPOSED
	ELECTRIC LINE
	FLOWLINE
\longrightarrow	FLOW DIRECTION
100.00	SPOT GRADE
ME	MATCH EXISTING
	- 1/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS
	- 6" CONCRETE PAVEMENT
	(4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS,
	CONTROL JOINTS @ 10'
	O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL
	6" COMPACTED #53 STONE BASE
	SCALE
a a a a a a a	





- COMPACTED SOIL GRAVEL SECTION NO SCALE

NO. 53 STONE (2 LIFTS)



GENERAL NOTES

1. All work shall be performed in conformance with the Subdivision Control Ordinance of the Town of Plainfield and all other ordinances which pertain to this type of work.

2. No changes in or departure from the plans or specifications shall be made without prior approval, in writing, by the Engineer.

3. The Contractor shall be responsible for obtaining all Federal, State, County and Town of Plainfield permits, or any other permits required.

4. Before construction begins, the Contractor shall field verify the location of all utilities shown on the plans, and contact all utility companies to locate all mains, conduits, service lines, etc., in the construction area, and shall protect all such utilities during construction.

5. Before construction begins, the Contractor shall notify the Owners, and/or the Owner's Engineer, so that an inspector may be present.

6. It shall be the responsibility of the Contractor to maintain quality control throughout the project; failure to do so may result in removal and replacement of the defective work. It is recommended that the Owner have a qualified inspector on the job site at all times during construction.

7. The Engineer shall be notified of all field tile located on the site during construction. All such field tile shall be incorporated into the storm sewer system so that it remains in working condition.

8. Plans shall be bid as a working system. Any errors or omissions shall be brought to the attention of the Engineer prior to construction. In the event of the Contractor's failing to give such notice, they shall be held responsible for the results of any such errors or omissions, and the cost of rectifying the same.

9. Structural fill shall be compacted in maximum 6" lifts to 95% standard proctor.

10. Liability Insurance Policy shall be furnished to the Owner before any work is started.

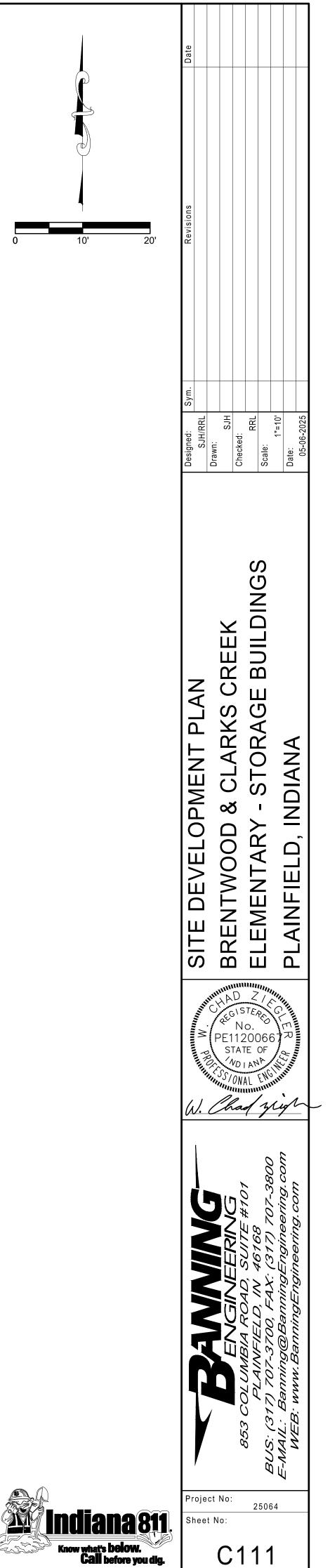
11. The contractor shall notify the Town of Plainfield at least 72 hours prior to any bonded or bank credit letter site improvements are installed. A pre-construction meeting shall be set up with the Town of Plainfield, Contractor, engineer & owner prior to any construction.

All accessible pathways, sidewalks and drive crossings shall not exceed 5% running slope and 2% cross slope or the latest requirements of the Americans with Disabilities Act (ADA). Accessible ramps shall not exceed 1/12 slope and 2% cross slope or the latest requirements of the Americans with Disabilities Act (ADA).

13. Accessible Ramp Detectable Warning Surface. A detectable warning surface shall consists of truncated domes and be placed at each street, highway or railroad crossing. The detectable warning surface shall extend a minimum of 2ft in the pedestrian travel and be placed the entire width of a ramp, blended transition, or turning space.

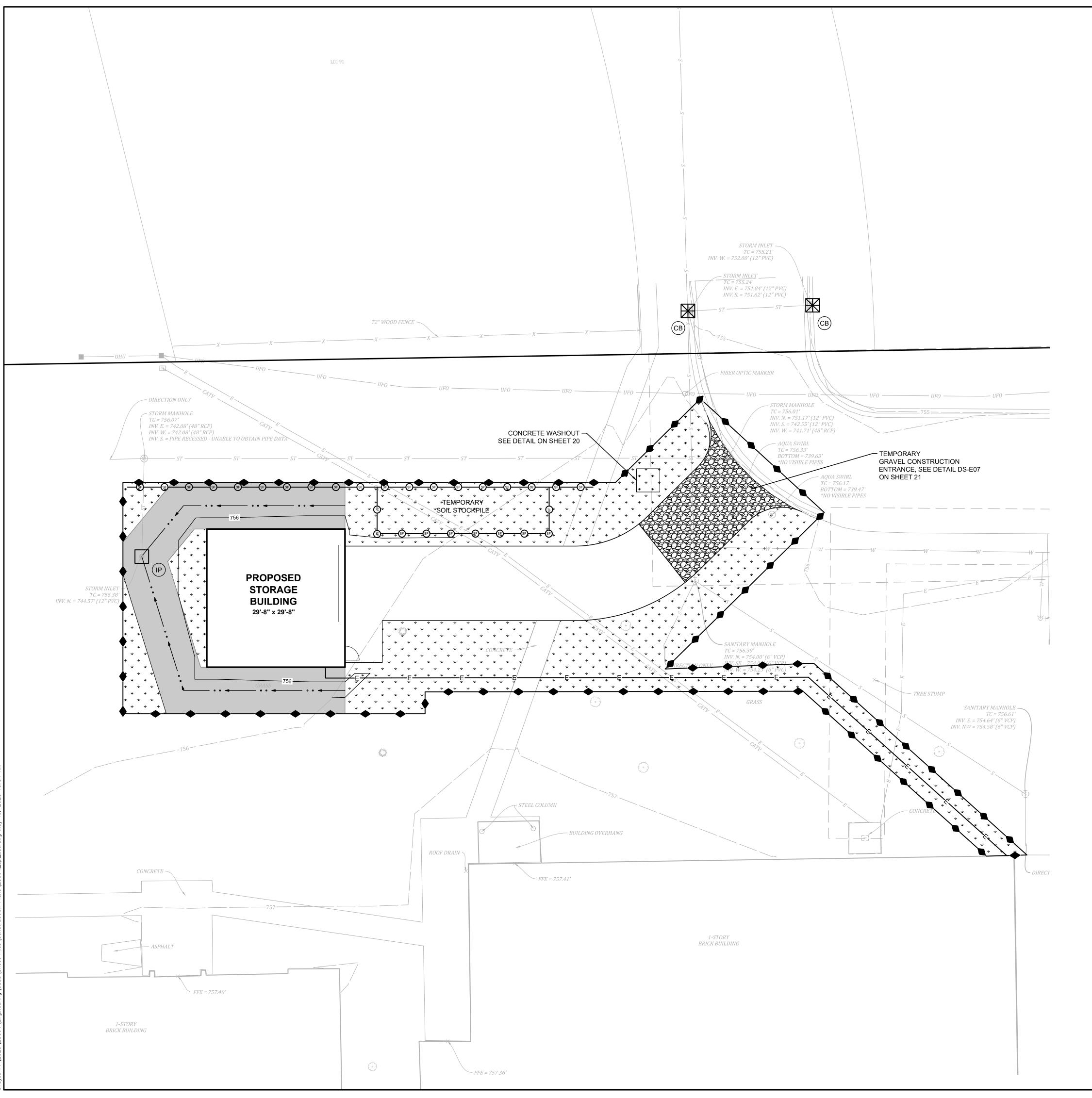
14. These plans shall be used in conjunction with Town of Plainfield standards, refer to sheet 1 of 29 for "directions for use."

<i>eXISTING eGHU</i> OVERHEAD UTILITY LINE <i>w</i> WATER LINE <i>eG</i> GAS LINE <i>eG</i> UNDERGROUND ELECTRIC LINE <i>uPO</i> UNDERGROUND FIBER OPTIC LINE <i>uPO</i> UNDERGROUND CABLE TV LINE <i>ST</i> STORM SEWER LINE <i>SS</i> SANITARY SEWER LINE <i>SX</i> FENCE <i>D III III Y SS</i> SANITARY SEWER STRUCTURES <i>G</i> SANITARY SEWER STRUCTURES <i>UTILITY POLE X UGHT POLE X UGHT POLE X UTILITY VAULT WATER METER G UTRE V III Y W SEWER CLEAN-OUT G SIGN W TREE PEOPOSED ELECTRIC LINE FLOW DIRECTION FLOW DIRECTION VODER FOOLED CONTROL JOINTS G MATCH EXISTING NOTE: EXP. JOINTS @ BLDG'S ME MATCH EXISTING OC. (MAX.) EXP. JOINTS 50° G GONPACTED SOIL</i>	
W WATER LINE -C GAS LINE -E UNDERGROUND ELECTRIC LINE UPO UNDERGROUND CABLE TV LINE -ST STORM SEWER LINE -ST STORM SEWER LINE -S SANITARY SEWER STRUCTURES © STORM SEWER STRUCTURES © STORM SEWER STRUCTURES © STORM SEWER STRUCTURES © UTILITY POLE X LIGHT POLE SUTILITY VAULT WATER METER © ELECTRIC TRANSFORMER Y FIRE HYDRANT © SEWER CLEAN-OUT d SIGN © TREE PROPOSED ELECTRIC LINE FLOW DIRECTION FILOW DIRECTION YOU OF GRADE MATCH EXISTING MATCH EXISTING NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBLCTS, OR IMMOVA	
G GAS LINE -E UNDERGROUND ELECTRIC LINE UFO UNDERGROUND FIBER OPTIC LINE UNDERGROUND CABLE TV LINE -ST STORM SEWER LINE -ST STORM SEWER LINE -S SANITARY SEWER LINE -S SANITARY SEWER STRUCTURES © UTILITY POLE X LIGHT POLE X SON • UTILITY VAULT • WATER METER V FIRE HYDRANT • SEWER CLEAN-OUT • SIGN • TREE 	
F UNDERGROUND ELECTRIC LINE UFO UNDERGROUND FIBER OPTIC LINE UNDERGROUND CABLE TV LINE ST STORM SEWER LINE ST STORM SEWER LINE S SANITARY SEWER LINE X FENCE Im If IP STORM SEWER STRUCTURES Im UTLITY POLE X LIGHT POLE X UTLITY VAULT Im WATER METER Im ELECTRIC TRANSFORMER Im Fire HyDRANT Im SEWER CLEAN-OUT Image: Star Image: Star Image: PROPOSED E ELECTRIC LINE FLOWLINE Image: Flow Direction Image: Spot GRADE ME MATCH EXISTING Image: Spot GRADE ME MATCH EXISTING Image: Spot GRADE NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBLECTS, OR IMMOVABLE	
UFO UNDERGROUND FIBER OPTIC LINE UNDERGROUND CABLE TV LINE -ST STORM SEWER LINE -ST STORM SEWER LINE -ST STORM SEWER STRUCTURES SANITARY SEWER STRUCTURES UTILITY POLE UTILITY POLE LIGHT POLE UTILITY VAULT WATER METER ELECTRIC TRANSFORMER FIRE HYDRANT SEWER CLEAN-OUT SEWER CLEAN-OUT SEWER CLEAN-OUT SEWER CLEAN-OUT SEWER CLEAN-OUT SEWER CLEAN-OUT SEWER CLEAN-OUT SEWER CLEAN-OUT UTILITY UNDERSED ELECTRIC LINE FLOW DIRECTION SPOT GRADE ME MATCH EXISTING 	
UNDERGROUND CABLE TV LINE -ST STORM SEWER LINE -ST STORM SEWER LINE -S SANITARY SEWER LINE -X FENCE D I I II II STORM SEWER STRUCTURES SANITARY SEWER STRUCTURES UTILITY POLE X LIGHT POLE X LIGHT POLE I UTILITY VAULT WATER METER E ELECTRIC TRANSFORMER Y FIRE HYDRANT SEWER CLEAN-OUT 4 SIGN FREE FROPOSED E ELECTRIC LINE FLOW DIRECTION FOODOD SPOT GRADE ME MATCH EXISTING ME MATCH EXISTING - 1/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS O' CONCRETE PAVEMENT NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 0' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL	
- ST STORM SEWER LINE - S SANITARY SEWER LINE - X FENCE D I II II STORM SEWER STRUCTURES SANITARY SEWER STRUCTURES UTILITY POLE X LIGHT POLE X LIGHT POLE Y UTILITY VAULT WATER METER E ELECTRIC TRANSFORMER FIRE HYDRANT SEWER CLEAN-OUT 4 SIGN FREE FROPOSED E ELECTRIC LINE FLOW DIRECTION FOOD SPOT GRADE ME MATCH EXISTING ME MATCH EXISTING ME MATCH EXISTING O C. (MAX.), EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 0' O.C. (MAX.) EXP.	
SANITARY SEWER LINE → FENCE SANITARY SEWER STRUCTURES SANITARY SEWER STRUCTURES UTILITY POLE UTILITY POLE UTILITY VAULT WATER METER ELECTRIC TRANSFORMER FIRE HYDRANT SEWER CLEAN-OUT SEWER STRUCTURE SEWER CLEAN-OUT SEWER STRUCTURE SEWER CLEAN-OUT SEWER STRUCTURE SEWER CLEAN-OUT SEWER STRUCTURE SEWER STRUCTURE	
-x FENCE >) □□ ■ ■ ● STORM SEWER STRUCTURES ③ SANITARY SEWER STRUCTURES ■ UTILITY POLE □ UTILITY VAULT ③ WATER METER □ ELECTRIC TRANSFORMER ♡ FIRE HYDRANT ③ SEWER CLEAN-OUT d SIGN ⑦ TREE PROPOSED ELECTRIC LINE FLOW DIRECTION □ □ □ □ □ □ SPOT GRADE ME MATCH EXISTING	
 STORM SEWER STRUCTURES SANITARY SEWER STRUCTURES UTILITY POLE LIGHT POLE UTILITY VAULT WATER METER ELECTRIC TRANSFORMER FIRE HYDRANT SEWER CLEAN-OUT SIGN TREE PROPOSED ELECTRIC LINE FLOW DIRECTION SPOT GRADE ME MATCH EXISTING 1/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS 6" CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS 50" O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
 SANITARY SEWER STRUCTURES UTILITY POLE UITILITY VAULT WATER METER UTILITY VAULT WATER METER ELECTRIC TRANSFORMER FIRE HYDRANT SEWER CLEAN-OUT SIGN TREE PROPOSED ELECTRIC LINE FLOW DIRECTION FLOW DIRECTION FOODER ME MATCH EXISTING On the match existing NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS O.C. (MAX.) EXP. JOINTS 50' O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
 UTILITY POLE LIGHT POLE UTILITY VAULT WATER METER ELECTRIC TRANSFORMER FIRE HYDRANT SEWER CLEAN-OUT SIGN TREE PROPOSED ELECTRIC LINE FLOW DIRECTION SPOT GRADE Match EXISTING Match EXISTING Or Concrete Pavement (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS (0 10° C) OC. (MAX.) EXP. JOINTS 50° O. C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
 LIGHT POLE UTILITY VAULT WATER METER ELECTRIC TRANSFORMER FIRE HYDRANT SEWER CLEAN-OUT SIGN TREE PROPOSED E ELECTRIC LINE FLOW DIRECTION FLOW DIRECTION FOOD GRADE ME MATCH EXISTING OC CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBLECTS, CONTROL JOINTS @ 10° O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
 UTILITY VAULT WATER METER ELECTRIC TRANSFORMER FIRE HYDRANT SEWER CLEAN-OUT SIGN TREE PROPOSED ELECTRIC LINE FLOW DIRECTION SPOT GRADE MATCH EXISTING 1/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS 6" CONCRETE PAVEMENT	
 WATER METER ELECTRIC TRANSFORMER FIRE HYDRANT SEWER CLEAN-OUT SIGN TREE PROPOSED E ELECTRIC LINE FLOW DIRECTION FLOW DIRECTION SPOT GRADE ME MATCH EXISTING 1/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS 6" CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS (2) BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS or 10" O.C. (MAX.), EXP. JOINTS 50" O.C. (MAX.), TYPICAL 	
ELECTRIC TRANSFORMER FIRE HYDRANT SEWER CLEAN-OUT SIGN TREE PROPOSED E ELECTRIC LINE FLOWLINE FLOW DIRECTION FLOW DIRECTION ME MATCH EXISTING 1/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS 6" CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10" O.C. (MAX.), EXP. JOINTS 50" O.C. (MAX.), EXP. JOINTS 50" O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
 FIRE HYDRANT SEWER CLEAN-OUT SIGN TREE PROPOSED E ELECTRIC LINE FLOW DIRECTION FLOW DIRECTION SPOT GRADE ME MATCH EXISTING 1/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS 6" CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10" O.C. (MAX.) EXP. JOINTS 50" O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
 SEWER CLEAN-OUT SIGN TREE PROPOSED E ELECTRIC LINE FLOW DIRECTION FLOW DIRECTION SPOT GRADE ME MATCH EXISTING ME MATCH EXISTING OR IMMOVABLE OBJECTS, CONTROL JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
 SIGN TREE PROPOSED E ELECTRIC LINE FLOWLINE FLOW DIRECTION SPOT GRADE ME MATCH EXISTING Or CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.), TYPICAL 6" COMPACTED #53 STONE BASE	
 TREE PROPOSED ELECTRIC LINE FLOWLINE FLOW DIRECTION SPOT GRADE ME MATCH EXISTING 1/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS 6" CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' 0.C. (MAX.) EXP. JOINTS 50' 0.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
PROPOSED E ELECTRIC LINE FLOW DIRECTION DIDIO SPOT GRADE ME MATCH EXISTING	
E ELECTRIC LINE FLOWLINE FLOW DIRECTION FLOW DIRECTION FLO	
 FLOW DIRECTION SPOT GRADE ME MATCH EXISTING ¹/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS ⁶" CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' 0.C. (MAX.), EXP. JOINTS 50' 0.C. (MAX.) TYPICAL ⁶" COMPACTED #53 STONE BASE 	
ME MATCH EXISTING (1/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS 6" CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
ME MATCH EXISTING	
- 1/8" WIDE X 1 1/2" DEEP TOOLED CONTROL JOINTS - 6" CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL - 6" COMPACTED #53 STONE BASE	
TOOLED CONTROL JOINTS - 6" CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL - 6" COMPACTED #53 STONE BASE	
TOOLED CONTROL JOINTS - 6" CONCRETE PAVEMENT (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL - 6" COMPACTED #53 STONE BASE	
(4000 PSI) (4000 PSI) NOTE: EXP. JOINTS @ BLDG'S OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
OR IMMOVABLE OBJECTS, CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
CONTROL JOINTS @ 10' O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
O.C. (MAX.), EXP. JOINTS 50' O.C. (MAX.) TYPICAL 6" COMPACTED #53 STONE BASE	
6" COMPACTED #53 STONE BASE	
ONCRETE PAVEMENT	
NO SCALE	
NO. 53 STONE	
د (2 LIFTS)	



GRAVEL SECTION NO SCALE

Know what's **below.** Call before you dig.



ss P: \2025\25064\Engineering\Cadd\Sheet Files\Construction Plans\25064_cp_esc.dwg May 19, 2025 10:54

EROSION CONTROL GENERAL NOTES

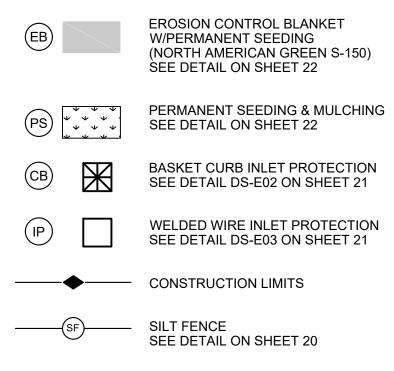
1. Only those areas within the designated construction limits are to be disturbed during construction.

- 2. Contractor to provide temporary surface stabilization of any area scheduled or likely to remain inactive for a period of 7 days or more.
- 3. Contractor to provide temporary signage near the entrance of the project identifying the responsible parties and other information about the project. Contractor is responsible for obtaining any necessary sign permits for this.
- 4. Contractor shall implement design concepts and storm water quality measures, which are shown on this plan, to reduce post construction pollutants discharging from the site.
- 5. All erosion control measures shall meet the Construction Stormwater General Permit requirements.
- 6. Refer to the "Indiana Storm Water Quality Manual", "The Urban Development Planning Guide", and Manufactures Recommendations for Installation for all required measures.
- 7. Inspection and repair of erosion control measures shall be done weekly and after each $\frac{1}{2}$ " rainfall event.

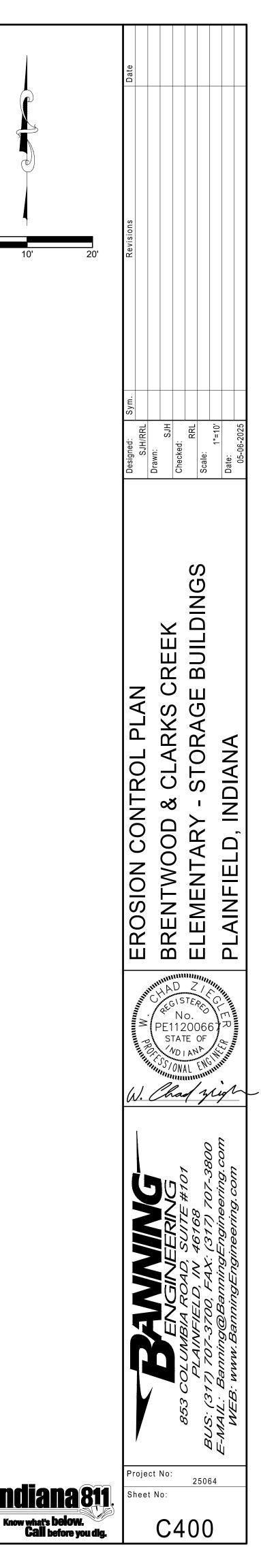
INITIAL EROSION CONTROL SEQUENCING

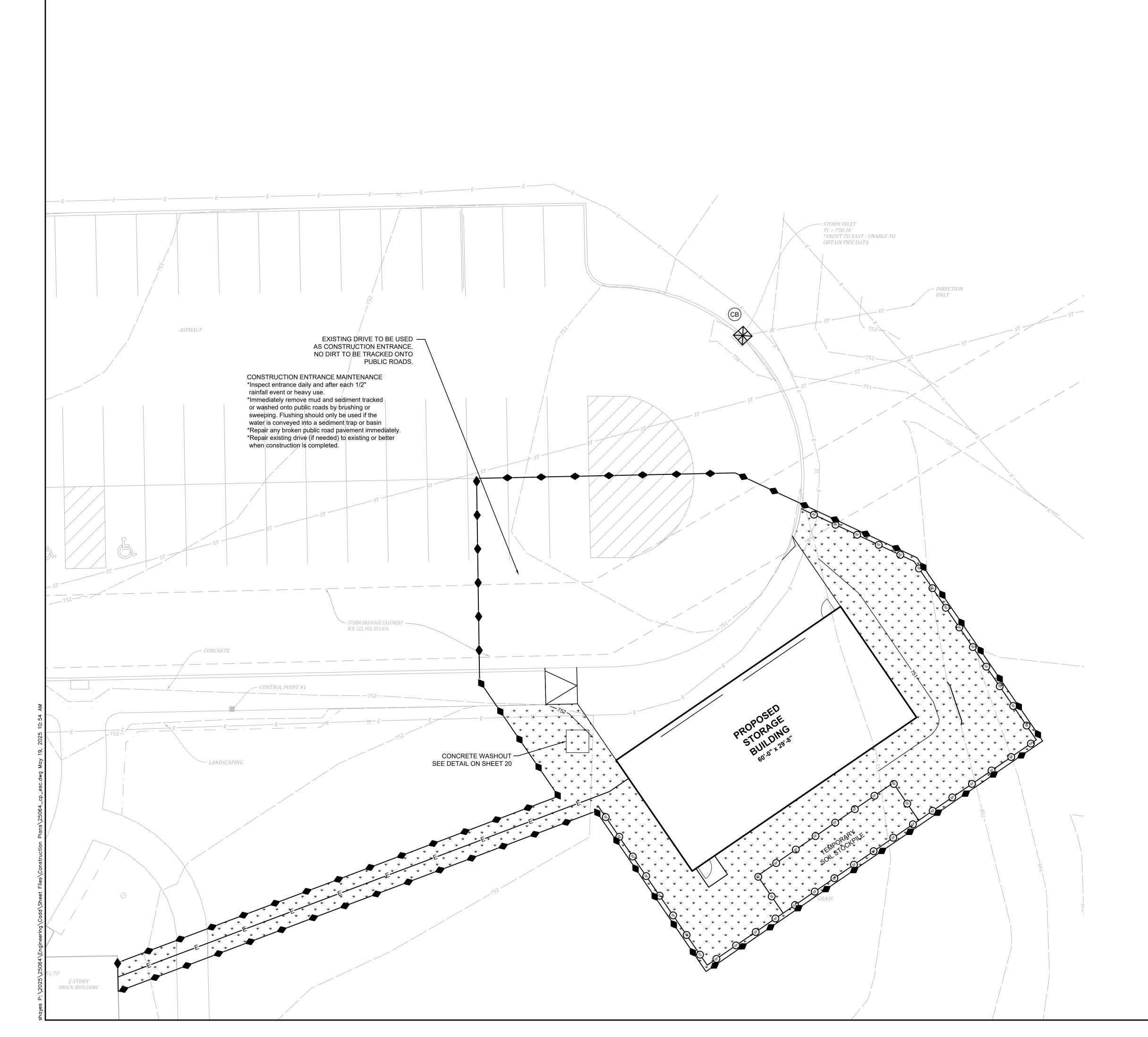
- . Setup a pre-construction meeting (at least 72 hours prior to construction) with Contractor, Developer, Engineer, and Town of Plainfield representative to discuss scheduling and sequencing of project.
- Contractor shall prepare a self-monitoring plan and procedure, including documentation of weekly self monitoring operations. These documents must be kept on file and made available upon request.
- 3. Start construction log. This log will document the performance of each pollution prevention measure. A thorough site inspection should be completed weekly, and within 24 hours of every ½"rain event.
- 4. Install construction entrance drive and construction staging area on site as delineated on this sheet.
- 5. Establish concrete washout as delineated on this plan and associated details.
- 6. Post the approved clean water permit issued by the Town of Plainfield. Notify IDEM at (317-233-1684) and the Town of Plainfield within forty-eight hours of the beginning of construction activities.
- 7. Install perimeter silt fence and protection barriers.
- 8. Remove trees and rubbish only as needed for construction.
- 9. Begin mass earth work with the stripping of the topsoil. Stockpile topsoil in those areas designated on this plan. Any proposed offsite storage locations must receive prior written approval from the Developer and have a current clean-water permit. Temporary seed and mulch all stockpiles immediately upon completion.
- 10. Rough grade site, install erosion control measures as required.
- 11. Install remaining utilities.
- 12. Finish grade drives, stone base and concrete.
- 13. Finish grade site and replace topsoil.
- 14. Install erosion control blankets with permanent seeding, and other erosion control measures as shown.
- 15. Temporarily seed and mulch all areas scheduled or likely to remain inactive for 7 days or more.
- 16. Permanent seed and mulch all disturbed areas not covered by erosion control blankets or temporary seeding measures.
- After construction is completed, vegetation established and permission received from Town of Plainfield representative, remove temporary erosion control measures.

EROSION CONTROL PLAN LEGEND



REFERENCE: 'PLAINFIELD TOWN STANDARDS' FOR SHEETS 1-29





EROSION CONTROL GENERAL NOTES

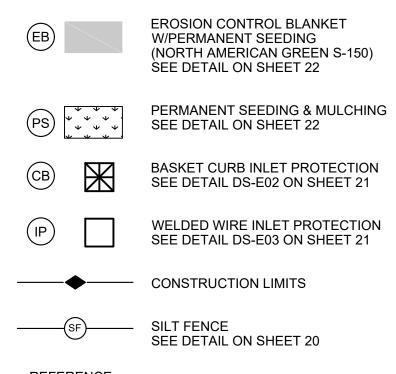
1. Only those areas within the designated construction limits are to be disturbed during construction.

- 2. Contractor to provide temporary surface stabilization of any area scheduled or likely to remain inactive for a period of 7 days or more.
- Contractor to provide temporary signage near the entrance of the project identifying the responsible parties and other information about the project. Contractor is responsible for obtaining any necessary sign permits for this.
- 4. Contractor shall implement design concepts and storm water quality measures, which are shown on this plan, to reduce post construction pollutants discharging from the site.
- 5. All erosion control measures shall meet the Construction Stormwater General Permit requirements.
- Refer to the "Indiana Storm Water Quality Manual", "The Urban Development Planning Guide", and Manufactures Recommendations for Installation for all required measures.
- 7. Inspection and repair of erosion control measures shall be done weekly and after each $\frac{1}{2}$ " rainfall event.

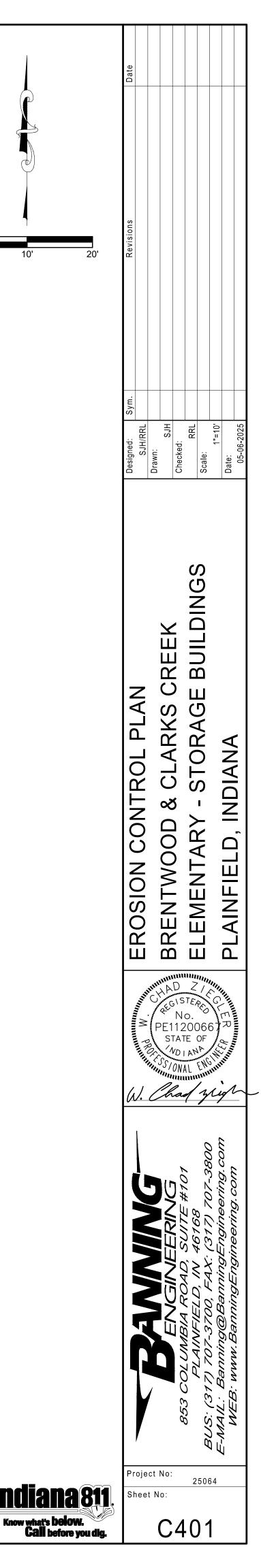
INITIAL EROSION CONTROL SEQUENCING

- . Setup a pre-construction meeting (at least 72 hours prior to construction) with Contractor, Developer, Engineer, and Town of Plainfield representative to discuss scheduling and sequencing of project.
- Contractor shall prepare a self-monitoring plan and procedure, including documentation of weekly self monitoring operations. These documents must be kept on file and made available upon request.
- Start construction log. This log will document the performance of each pollution prevention measure. A thorough site inspection should be completed weekly, and within 24 hours of every ½"rain event.
- 4. Install construction entrance drive and construction staging area on site as delineated on this sheet.
- 5. Establish concrete washout as delineated on this plan and associated details.
- 6. Post the approved clean water permit issued by the Town of Plainfield. Notify IDEM at (317-233-1684) and the Town of Plainfield within forty-eight hours of the beginning of construction activities.
- 7. Install perimeter silt fence and protection barriers.
- 8. Remove trees and rubbish only as needed for construction.
- 9. Begin mass earth work with the stripping of the topsoil. Stockpile topsoil in those areas designated on this plan. Any proposed offsite storage locations must receive prior written approval from the Developer and have a current clean-water permit. Temporary seed and mulch all stockpiles immediately upon completion.
- 10. Rough grade site, install erosion control measures as required.
- 11. Install remaining utilities.
- 12. Finish grade drives, stone base and concrete.
- 13. Finish grade site and replace topsoil.
- 14. Install erosion control blankets with permanent seeding, and other erosion control measures as shown.
- 15. Temporarily seed and mulch all areas scheduled or likely to remain inactive for 7 days or more.
- 16. Permanent seed and mulch all disturbed areas not covered by erosion control blankets or temporary seeding measures.
- After construction is completed, vegetation established and permission received from Town of Plainfield representative, remove temporary erosion control measures.

EROSION CONTROL PLAN LEGEND



REFERENCE: 'PLAINFIELD TOWN STANDARDS' FOR SHEETS 1-29



DIRECTIONS FOR USE

- 1.) Details, Notes, Or Specifications Prepared By Outside Sources Shall Not Be Included In The Construction Drawings When Said Details Cover Work Which Is Covered By Town Standards.
- 2.) Individual Town Standards That Do Not Apply May Be Crossed-Out By Design Engineer Through The Placement Of A Single Large X Over The Detail. Minor Reference Notations May Be Placed Adjacent To Individual Standard Titles For Coordination However, The Standards Themselves Shall Not Be Modified In Any Way.
- 3.) Details Prepared By Outside Sources Covering Work Which Is Not Covered By Town Standards Are The Sole Responsibility Of The Design Engineer And Shall Be Placed On Sheets Other Than The Town Standards Sheets.
- 4.) Failure To Properly Execute The Above Directions For Use Will Not Effect The Applicability Nor The Enforcement Of The Town Standards.
- 5.) Town Of Plainfield Shall Be Contacted When Required By Calling 317-839-3490.

	INDEX
SHEET NO.	DESCRIPTION
01	DIRECTIONS FOR USE, GENERAL NOTES
02	RIGHT-OF-WAY, UTILITY EASEMENT & UTILITY LOCATION GUIDELINES
03	PAVEMENT, CURB & SIDEWALK DETAILS & NOTES
04	ROADWAY (R) DEVELOPMENT STANDARDS
05	BUS SHELTER DETAILS AND MISCELLANEOUS DETAILS
06-07	MISCELLANEOUS DETAILS AND NOTES
08	GENERAL (G) DEVELOPMENT STANDARDS
09	STORM SEWER BEDDING DETAILS AND NOTES
10	STORM SEWER DETAILS AND NOTES
11	STORM DRAINAGE (D) DEVELOPMENT STANDARDS
12	WATER MAIN BEDDING DETAILS & NOTES
13	WATER MAIN DETAILS & NOTES
14	WATER (W) DEVELOPMENT STANDARDS
15	SANITARY SEWER BEDDING DETAILS AND NOTES
16	SANITARY SEWER DETAILS AND NOTES
17	SANITARY SEWER LIFT STATION STANDARDS & GUIDELINES
18	SANITARY SEWER (S) DEVELOPMENT STANDARDS
19	SANITARY SEWER (S) DEVELOPMENT STANDARDS
20-23	EROSION CONTROL MEASURES & EROSION CONTROL (E) DEVELOPMENT STANDA
24	LOW SPEED URBAN / SUBURBAN ROUNDABOUT DETAIL
25-26	STREET LIGHTING DETAILS
27	TRAFFIC SIGNAL DETAILS
28	WIRELESS DETECTION DETAILS
29	LANDSCAPE DETAILS

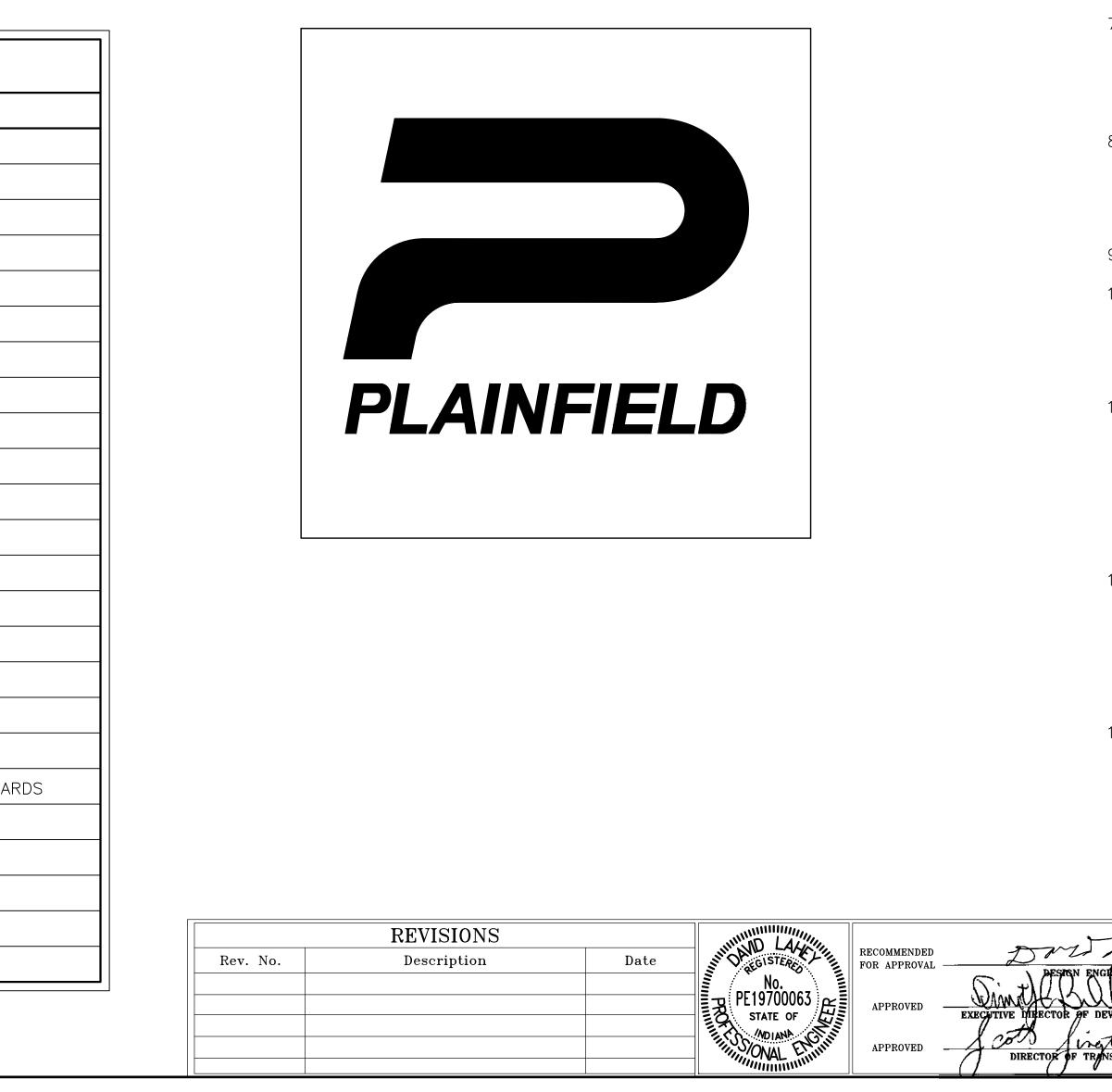
PLAINFIELD, INDIANA TOWN STANDARDS

Town Standards Apply To Public Property & Private Property.

Developed In Accordance With Subdivision Control Ordinance & Zoning Ordinance.

The Entire Set Of Full Size Town Standards Shall Be Attached To The Construction Drawings And Shall Be Considered Part Thereto.

DATE OF CURRENT ISSUANCE: 01/01/2025

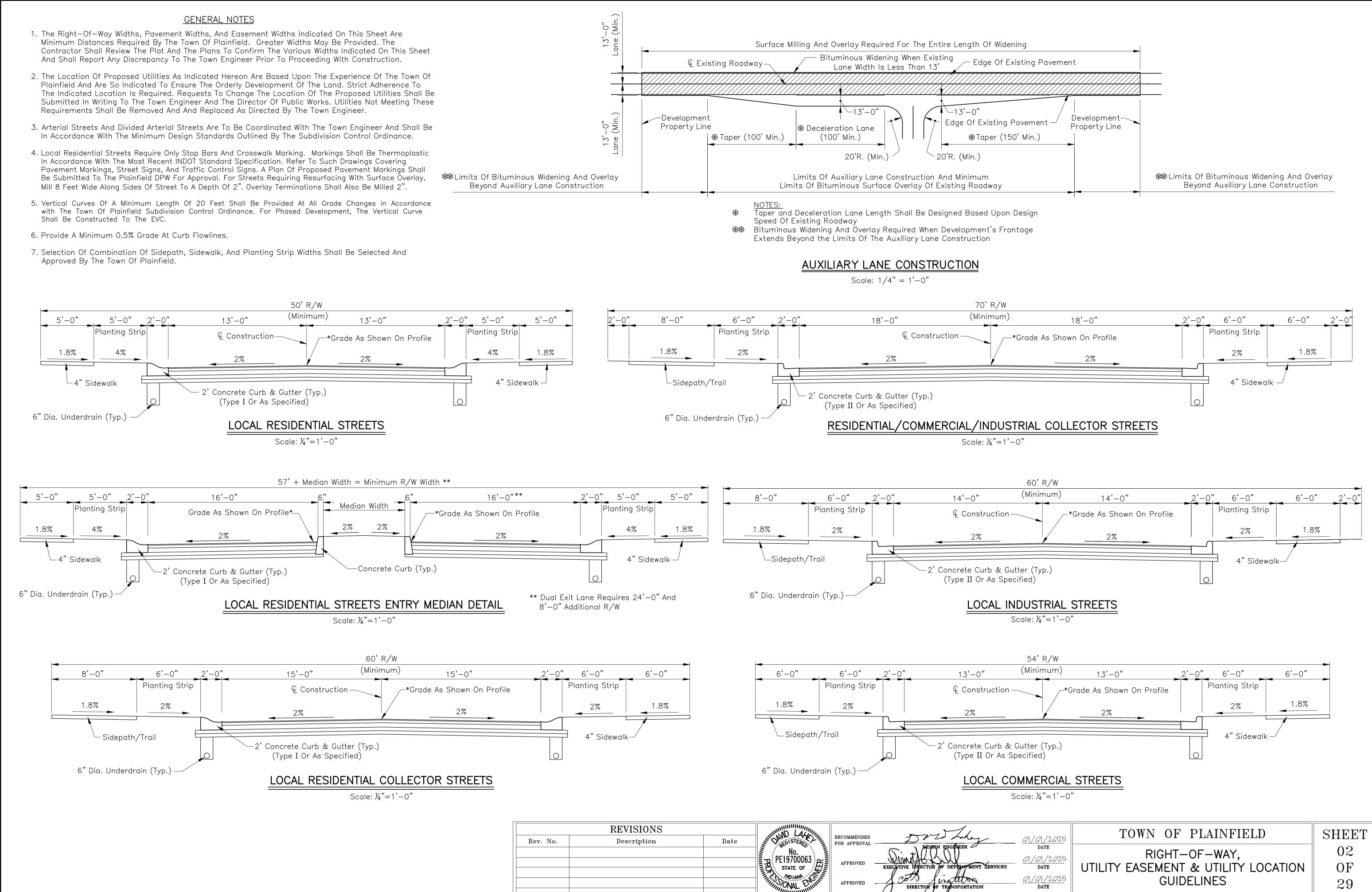


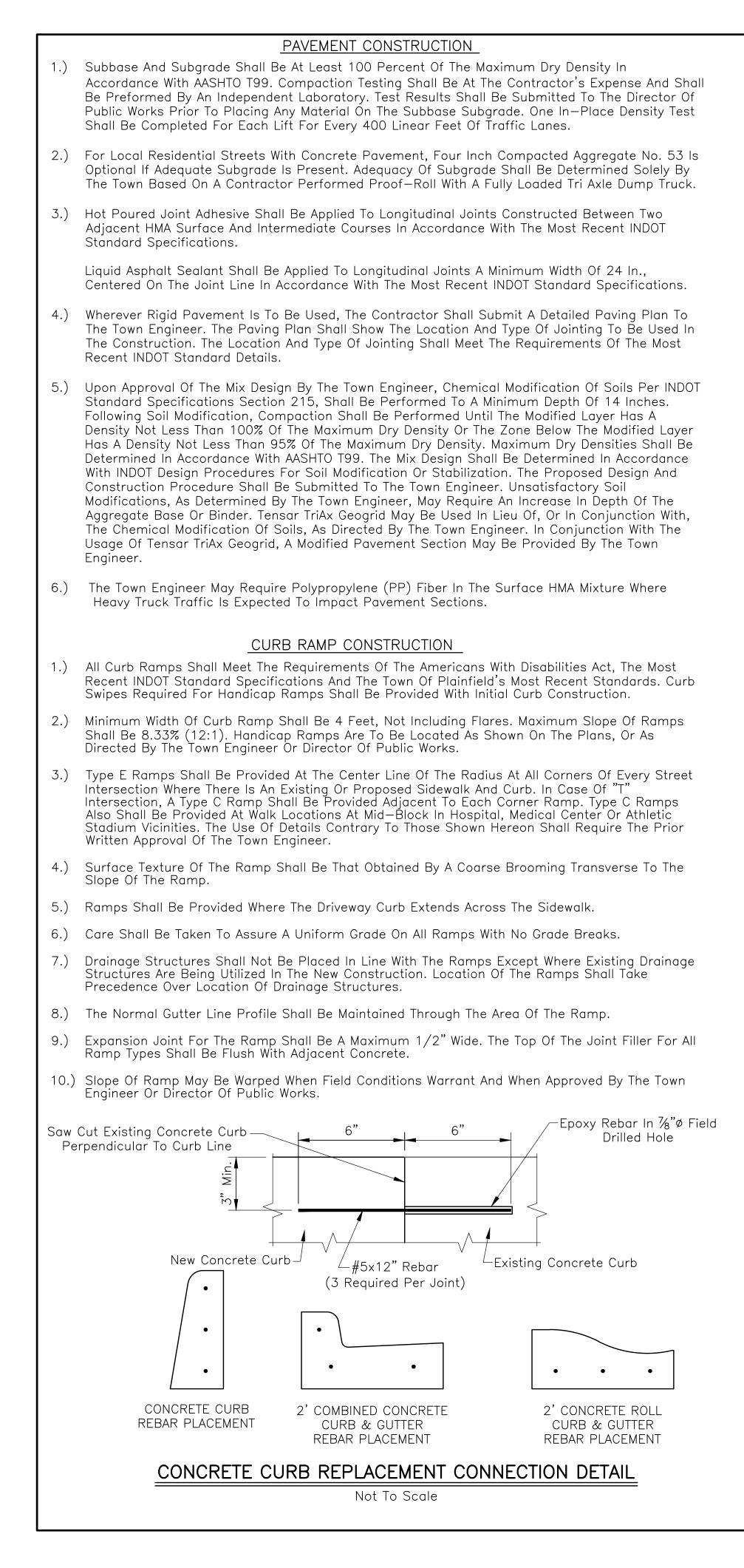


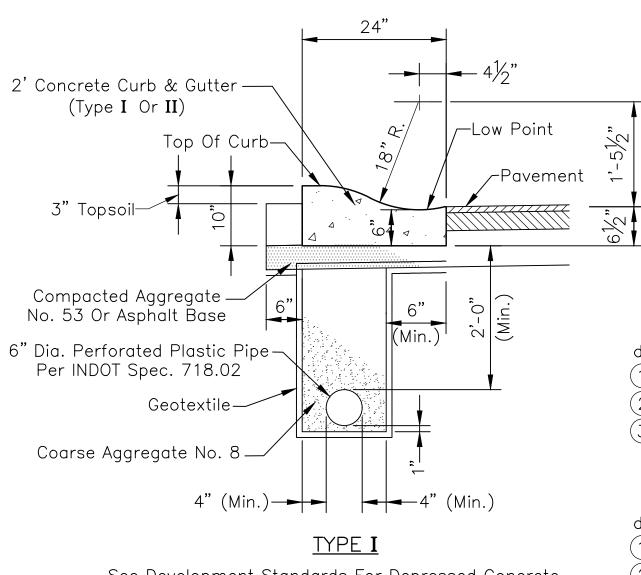
GENERAL NOTES

- 1.) Contractor Shall Verify The Exact Location Of All Existing Utilities At Least 24 Hours Prior To Any Construction Or Excavation. During Construction, All Utilities Shall Be Adequately Supported To Minimize Damage. The Contractor Shall Be Responsible For Repairing Or Replacing Damaged Utilities To The Satisfaction Of The Town Of Plainfield And The Owner Of The Affected Utility.
- 2.) Installation Of Or Provisions For The Installation Of All Underground Utilities (Including Service Laterals) To Be Placed Under Pavement Areas Shall Be Established Prior To The Construction Of The Pavement. The Town Reserves The Right To Require Trenchless Construction For Crossing Of Existing Streets.
- 3.) All Benchmarks And Elevations Shall Be U.S.C. & G.S. Datum.
- 4.) Wherever Proprietary Equipment Is Specified, All Proposals For Substitution Shall Be Submitted In Writing To The Plainfield DPW And Shall Be Subject To The Findings Of The Plainfield DPW.
- 5.) Whenever A Non-Parallel Trench Opening Encroaches Within 5' Of An Existing Street Or Whenever Centerline Of Water Main Is Within 3' Of An Existing Street, Flowable Fill Shall Be Used For Trench Backfill.
- 6.) Except For Water Main Construction, Whenever A Non-Parallel Trench Opening Encroaches Within 5' Of A Proposed Street, Private Drive Or Sidewalk, Granular Backfill If Testing Confirms Compaction. Coarse Aggregate No. 8, Or Flowable Fill Shall Be Used For Trench Backfill.
- 7.) For Water Main Parallel With Adjacent Pavement And Having A Centerline Of Pipe At Least 3' Behind Back-Of-Curb, Approved Backfill Material May Be Used For Trench Backfill. Whenever Centerline Of Water Main Encroaches Within 3' Of A Proposed Street, Private Drive Or Sidewalk, Coarse Aggregate No. 8, Or Flowable Fill Shall Be Used For Trench Backfill.
- 8.) Approved Excavated Material May Be Used For Backfill Outside Of Limits Specified Herein And Under Proposed Sidewalks Provided Sidewalks Are Constructed 6 Months After Backfilling Of Trench. In Order For Excavated Material To Be Approved For Backfill It Shall Be Free Of Organic Material, Rocks Larger Than 6 Inches, Frozen Material, Debris, Excessive Water, Or Other Unsuitable Material As Determined By Plainfield DPW.
- 9.) Black Foundry Sand Is NOT Approved For Use In The Town Of Plainfield.
- 10.) Whenever Granular Backfill Is Placed In A Trench, Contractor Shall Compact Material To A Minimum Of 95% Maximum Dry Density As Per AASHTO T99. The Contractor Shall Demonstrate That Compaction Is Achieved By Means Of In Place Density Tests Performed By An Independent Testing Firm. Testing Frequency Shall Be One Test Per Trench Or 1 Test Per 100 Linear Feet Of Trench, Whichever Is Greater.
- 11.) In Order To Mitigate The Impact Of Land Disturbing Activities On The Public, The Town Currently Allows Two Options. Option 1: Preparation, Implementation, & Maintenance Of A Lime Stabilization Plan For Building Area, Activity Area Adjacent To Building, Access Road(s), & Staging Area Utilizing A Minimum Of 4" Of Compacted Aggregate No. 53 Over A Minimum Of 8" Thickness Lime Subgrade Treatment. Option 2: Preparation, Implementation, & Maintenance Of A Sufficient Washbay Area. If Option 2 Is Deemed Insufficient At The Sole Discretion Of The Town Engineer, Option 1 Will Need To Be Implemented Prior To Any Other Construction Activity Proceeding At The Site.
- 12.) The Construction Of New Combined Sewers Within The Town Of Plainfield's Service Area Is Prohibited. New Construction That Is Tributary To An Existing Combined Sewer Shall Be Designed To Minimize Or Delay The Inflow Contribution To The Existing Combined Sewer. Where New Construction Is Served By Existing Combined Sewers, The Inflow/Clear Water Connection To The Existing Combined Sewer Shall Be Made Separate And Distinct From The Sanitary Waste Connection To Facilitate Disconnection Of The Former If A Separate Storm Sewer Subsequently Becomes Available.
- 13.) As-Built Drawings Of All Storm Sewer, Water Main, And Sanitary Sewer Installation Shall Be Submitted To The Town Of Plainfield. As-Built Drawings Shall Be A Red Lined PDF Version Of The Drawing Showing All Changes And Deviations And GIS Shapefiles Showing Coordinates Of All Utility Locations. All Horizontal Coordinates Shall Be In The Horizontal Datum NAD 83 Indiana State Plane West Datum And All Elevations Provided In The As-Built Drawings Shall Be In The Vertical Datum NGVD 1988. GPS Collected Coordinates Shall Depict Actual Horizontal And Vertical Locations Of Utility Assets Such As, But Not Limited To: Manholes, System Valves, Hydrant, Blow-Offs, Air Release Valves, Master Meters, Cleanouts, Risers, Pump Stations/Wet Wells, And BMPs. Contractor Shall Submit As-Built Drawings Within 30 Days Of Successful Completion Of All Testing Requirements.

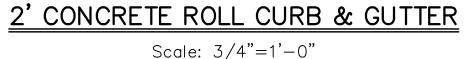
Lakey	0/0/2025	TOWN OF PLAINFIELD	SHEET
NEER	$\frac{DATE}{\frac{O /O /2025}{DATE}}$	DIRECTIONS FOR USE,	01 0F
ELOPMENT SERVICES	DATE <u>0 /0 /2025</u> DATE	GENERAL NOTES	0F 29



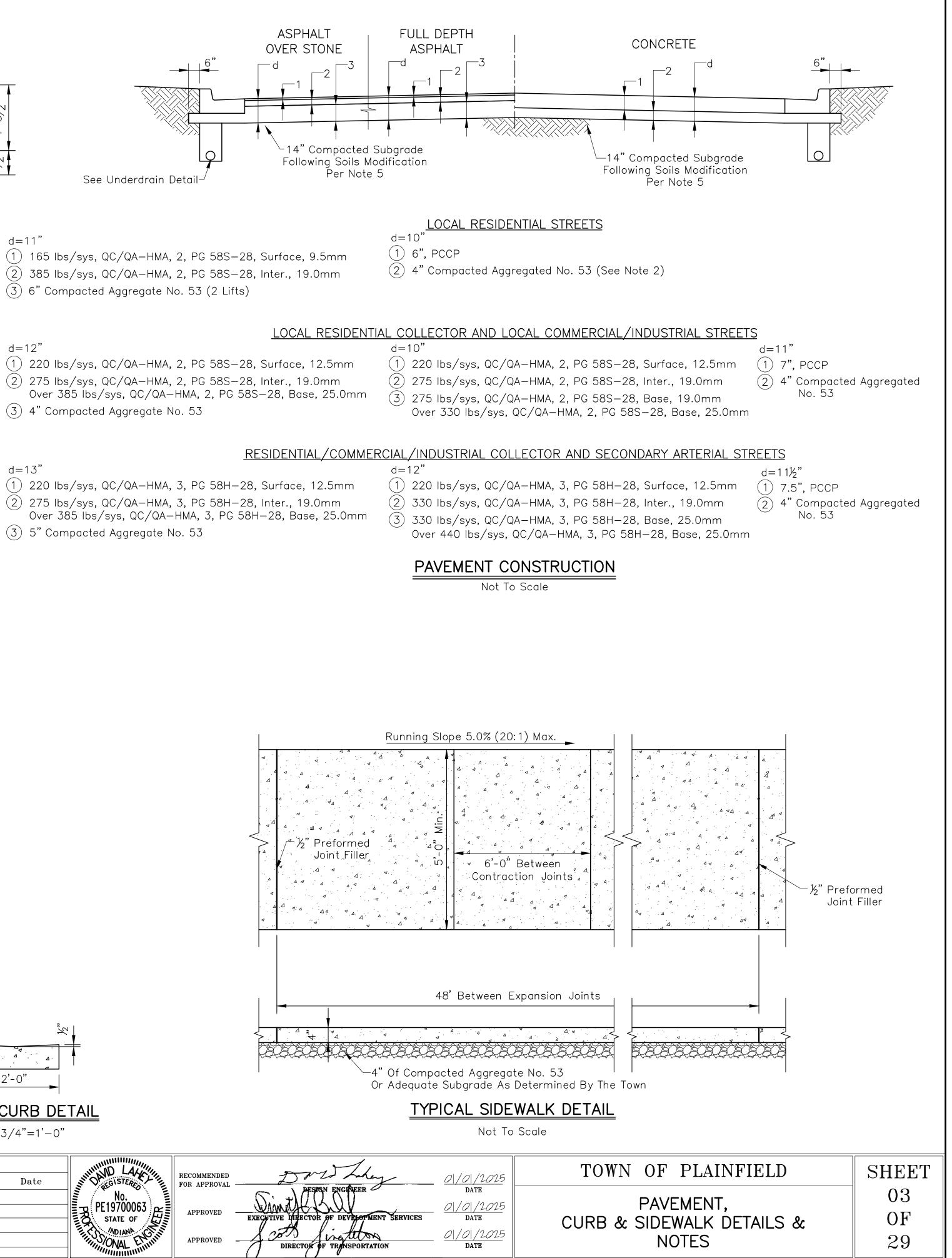








24"



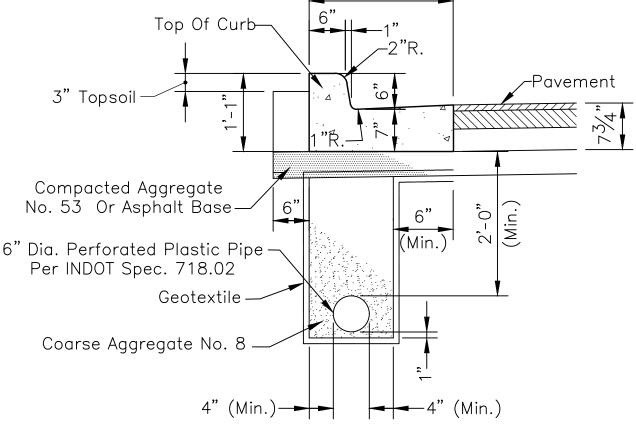
d=11"

- (1) 165 lbs/sys, QC/QA-HMA, 2, PG 58S-28, Surface, 9.5mm
- (2) 385 lbs/sys, QC/QA-HMA, 2, PG 58S-28, Inter., 19.0mm
- $(\overline{3})$ 6" Compacted Aggregate No. 53 (2 Lifts)

- d=12"

- $(\overline{3})$ 4" Compacted Aggregate No. 53

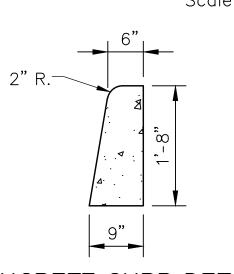
- d=13"
- (1) 220 lbs/sys, QC/QA-HMA, 3, PG 58H-28, Surface, 12.5mm
- (2) 275 lbs/sys, QC/QA-HMA, 3, PG 58H-28, Inter., 19.0mm
- (3) 5" Compacted Aggregate No. 53





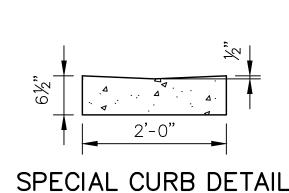
See Development Standards For Reinforced Concrete Gutter Which Is Required At All Private Drives That Intersect A Public Road With Type II Curb Or Similar.

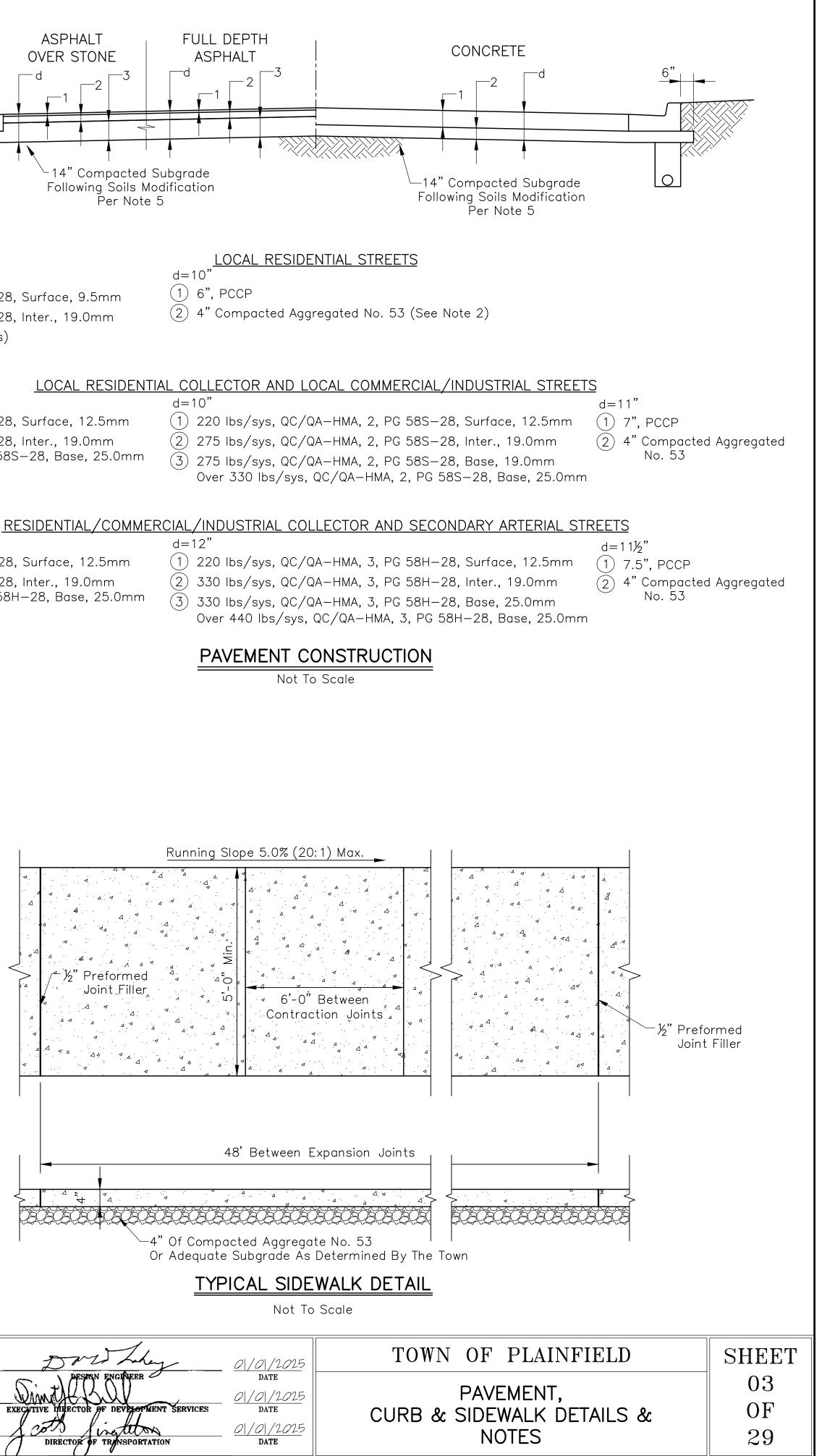


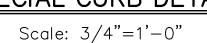


CONCRETE CURB DETAIL

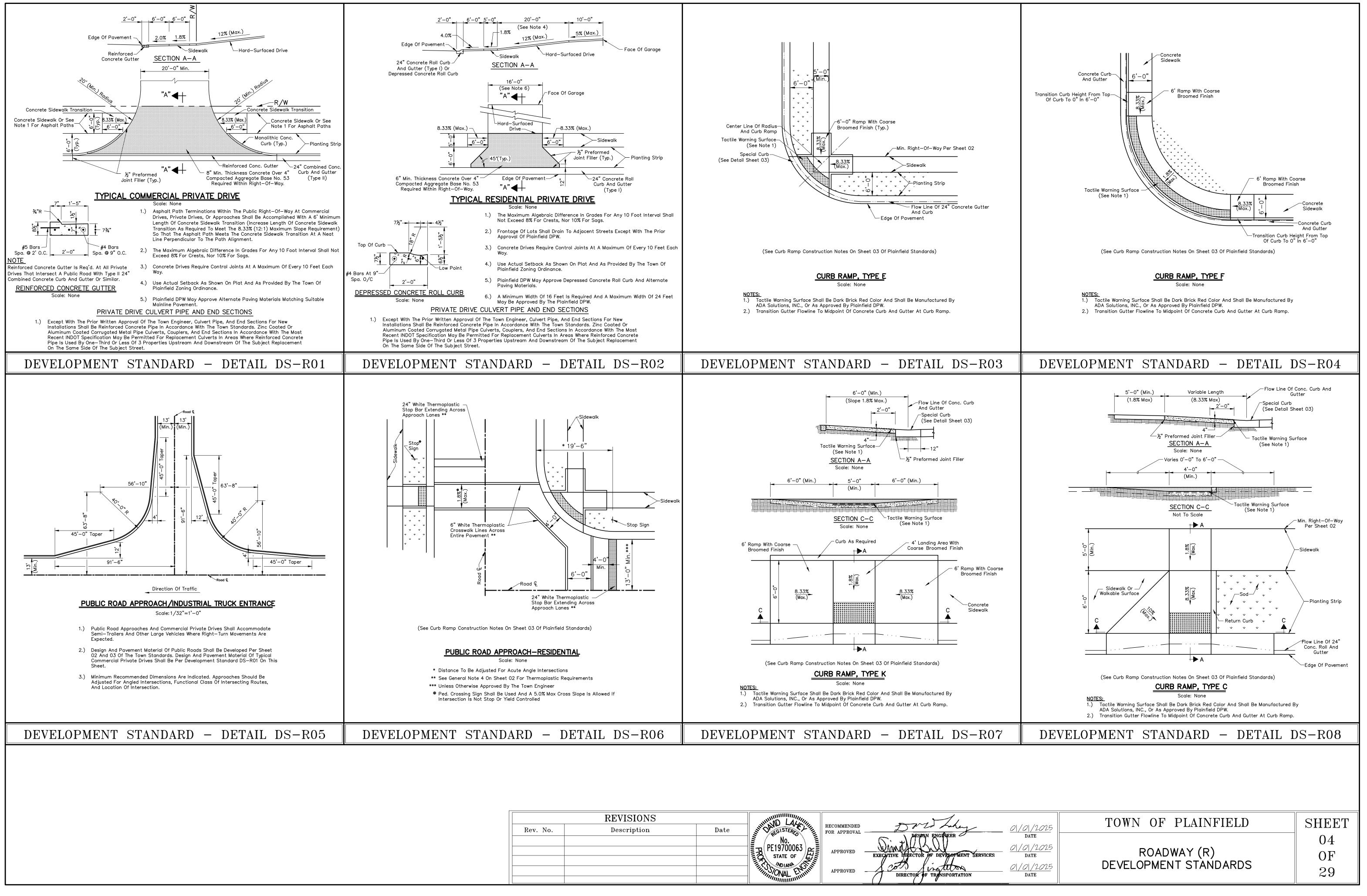
Scale: 3/4"=1'-0"



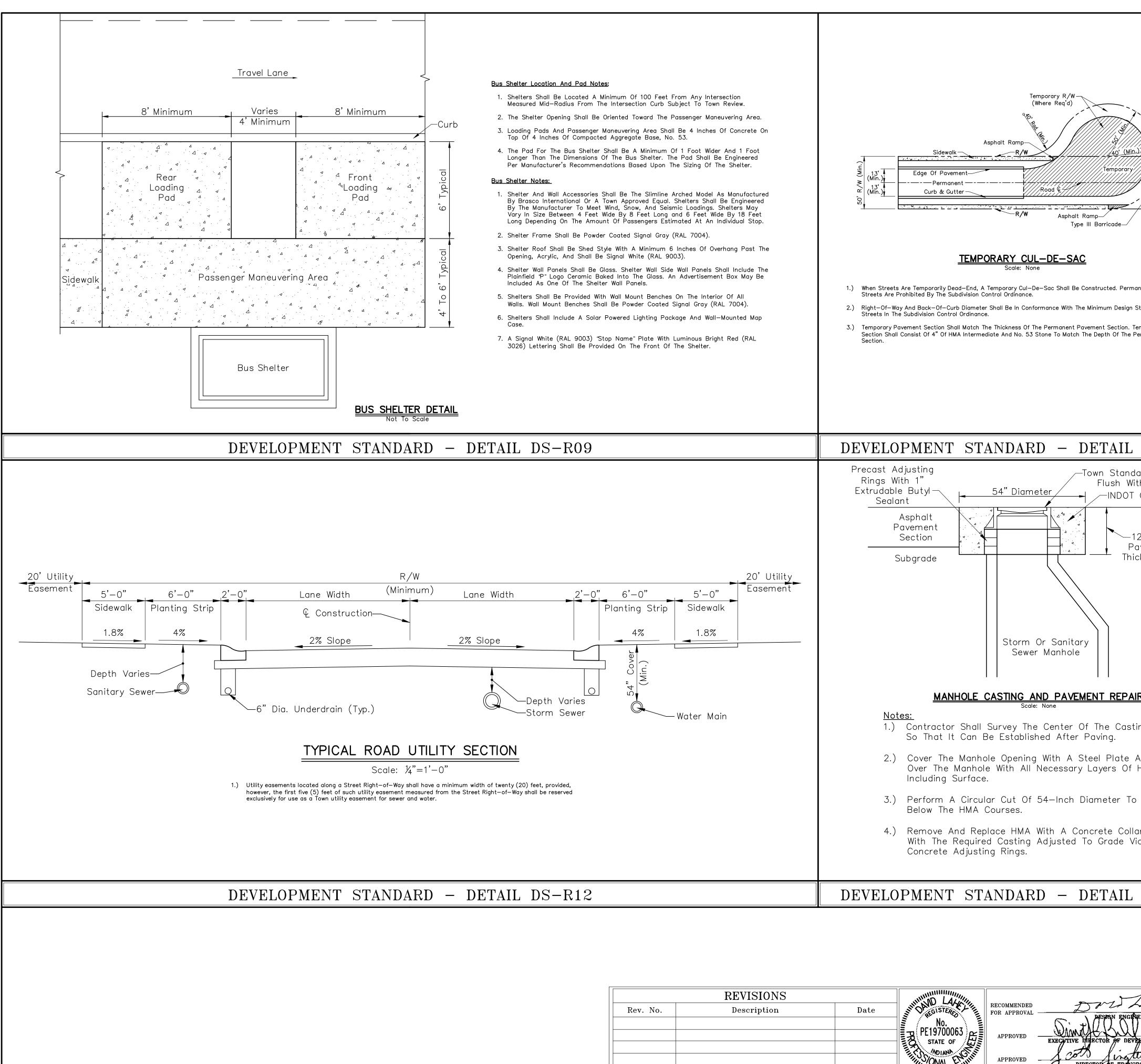




	REVISIONS				
Rev. No.	Description	Date	NIN AREGISTER	RECOMMENDED FOR APPROVAL	DALL A
			PE19700063	APPROVED	EXECUTIVE INFECTOR OF DEVEL
			MILLS MOLANA COLUMN	APPROVED	DIRECTOR OF TRANSPO

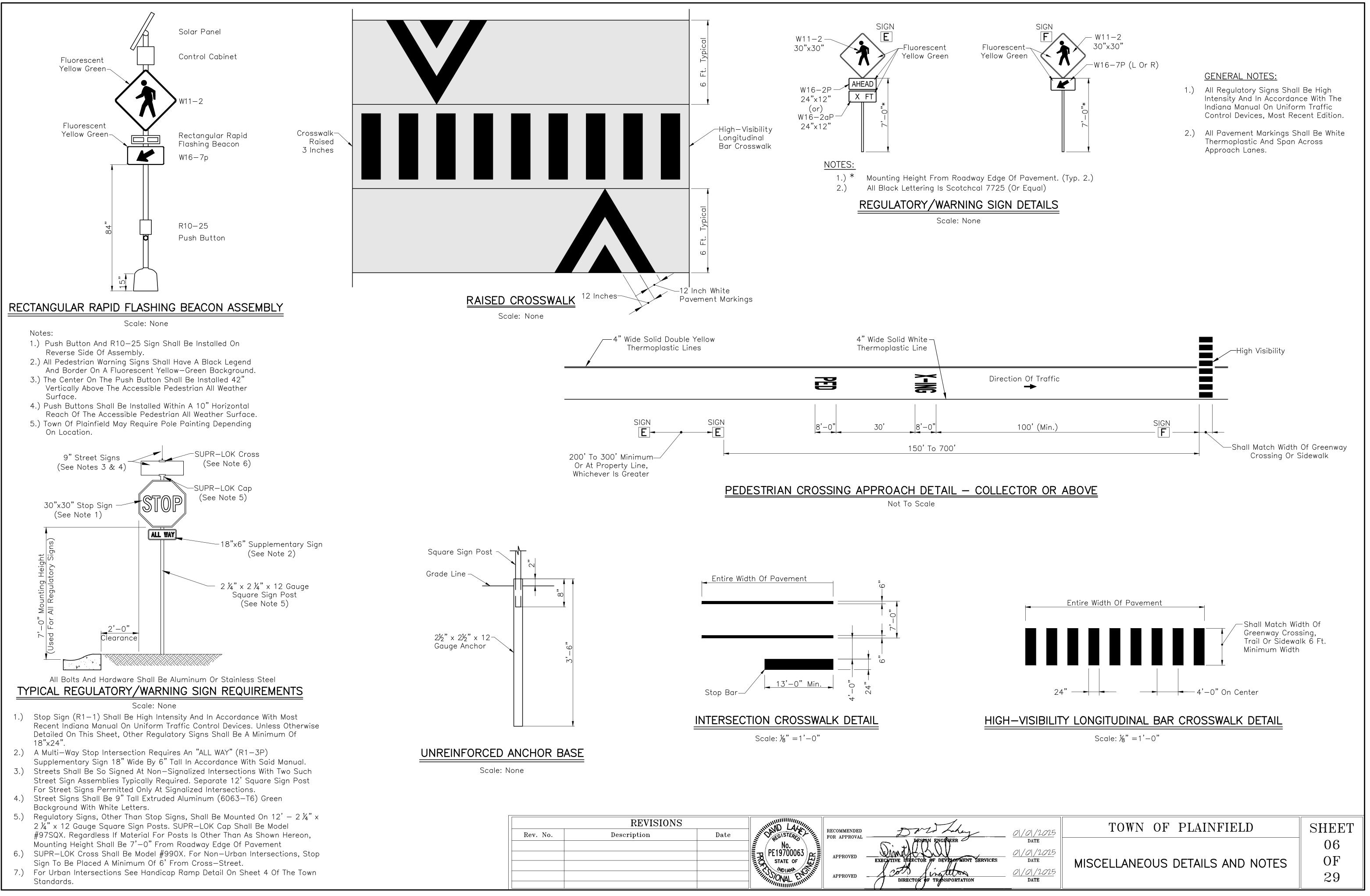


		REVISIONS				
I	Rev. No.	Description	Date	NO.	RECOMMENDED FOR APPROVAL -	DATA A
				PE19700063	APPROVED -	EXECUTIVE DIFECTOR OF DEVE
				MIANA CONTINUE	APPROVED -	DIRECTOR OF TRANSPO

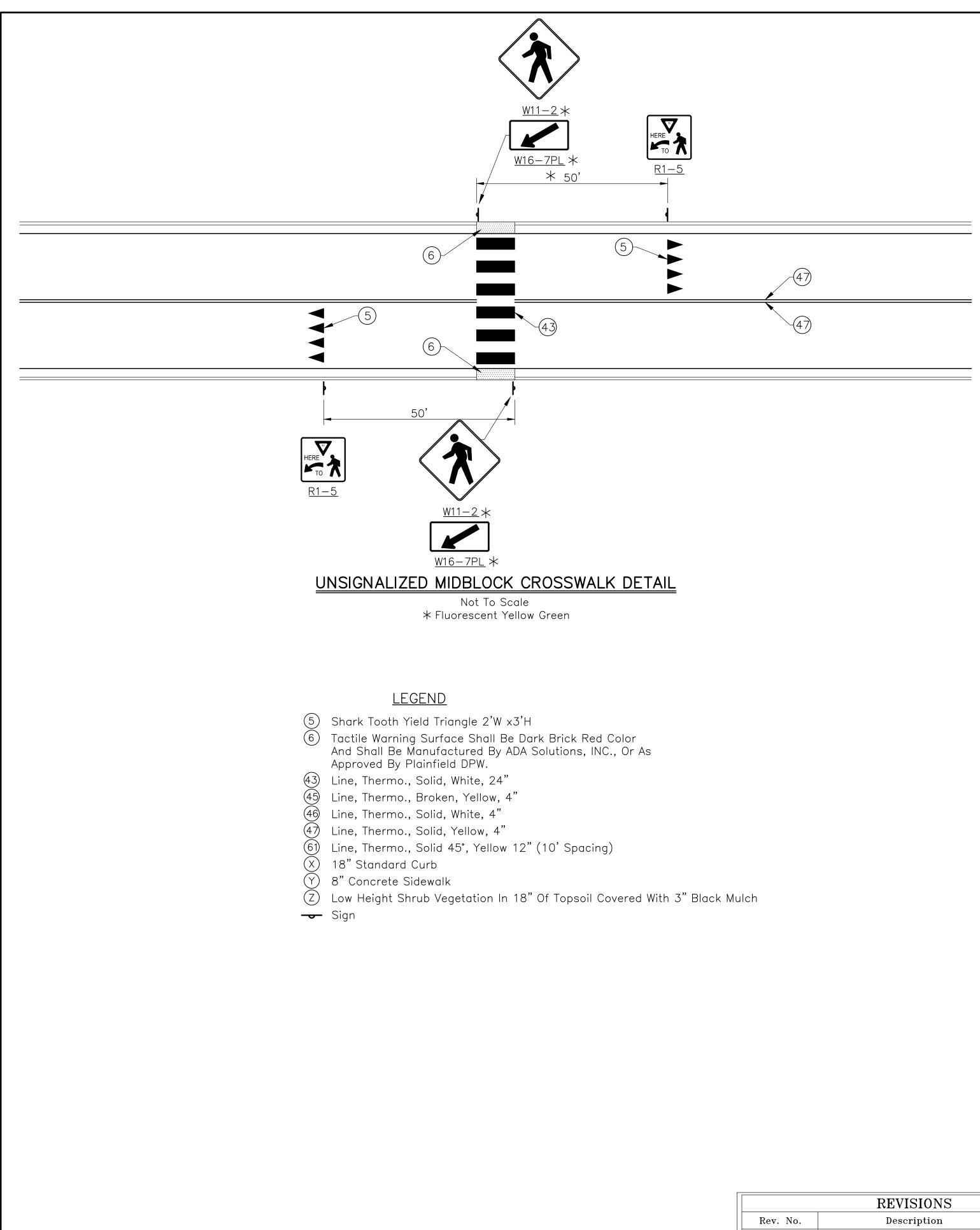


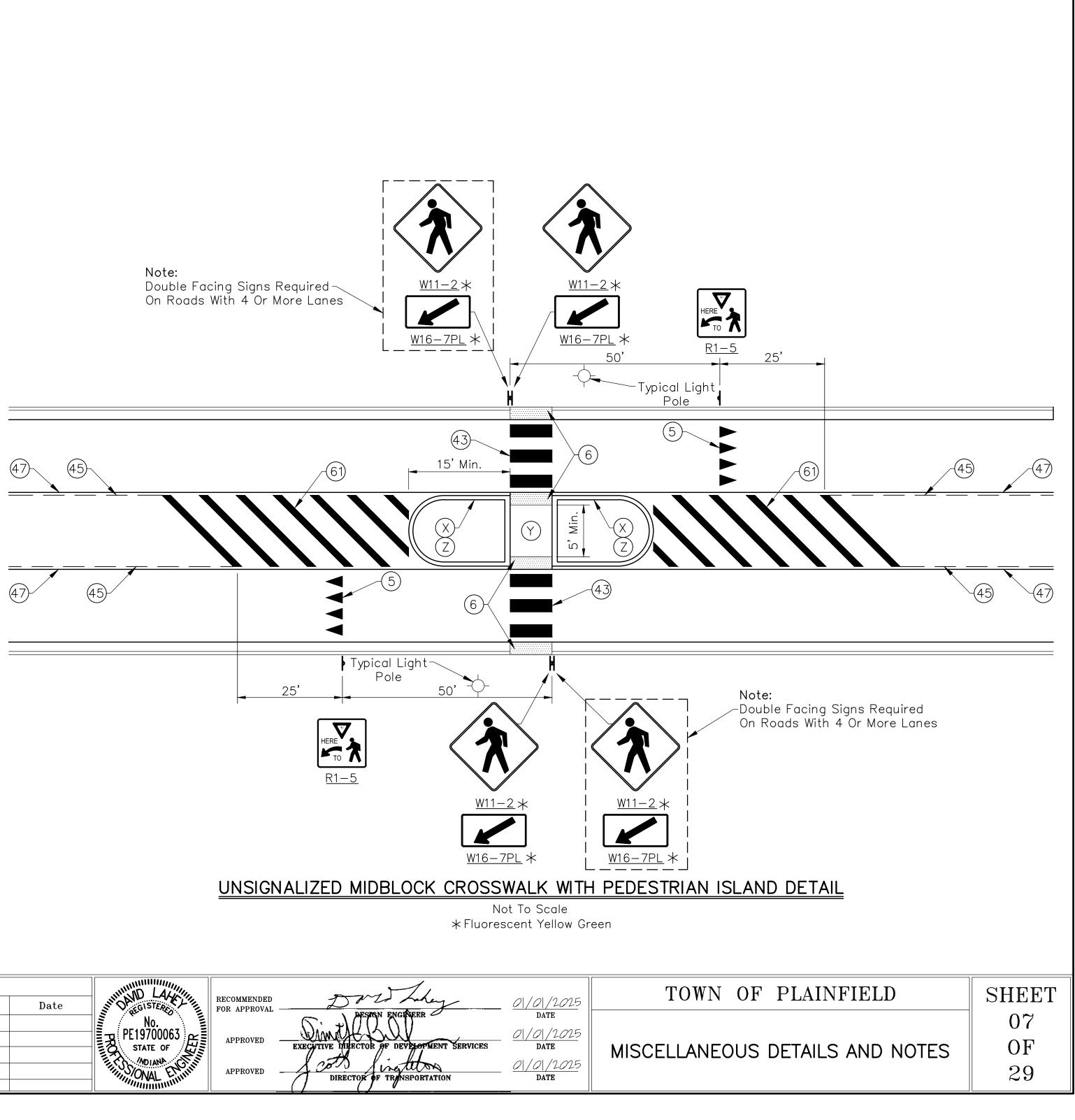
	REVISIONS				
Rev. No.	Description	Date	No.	RECOMMENDED FOR APPROVAL	Destron Engineer
			PE19700063	APPROVED	EXECUTIVE DIRECTOR OF DEVELOPMENT SER
			MIANA CUTIN	APPROVED	DIRECTOR OF TRANSPORTATION

nently Dead-End Standards For emporary Pavement ermanent Pavement	Type 4 Object Marker OM4-1 Per INDOT 6' O.C. 6' O.C. 6' O.C. 6' O.C. 6' O.C. Fediective Point Per INDOT Standards Mote: End 0f Street Detail For Collector Or Above Subject To Town Engineer Approval. End 0f Street Detail For Collector Or Above Subject To Town Engineer Approval.
DS-R10	DEVELOPMENT STANDARD - DETAIL DS-R11
And Pave HMA A Depth DS-R13	
EER 2 LOPMENT SERVICES	O / 2015 DATETOWN OF PLAINFIELDSHEET 05 05 DATEO / 2015 DATEBUS SHELTER DETAILS & MISCELLANEOUS DETAILSOF 29

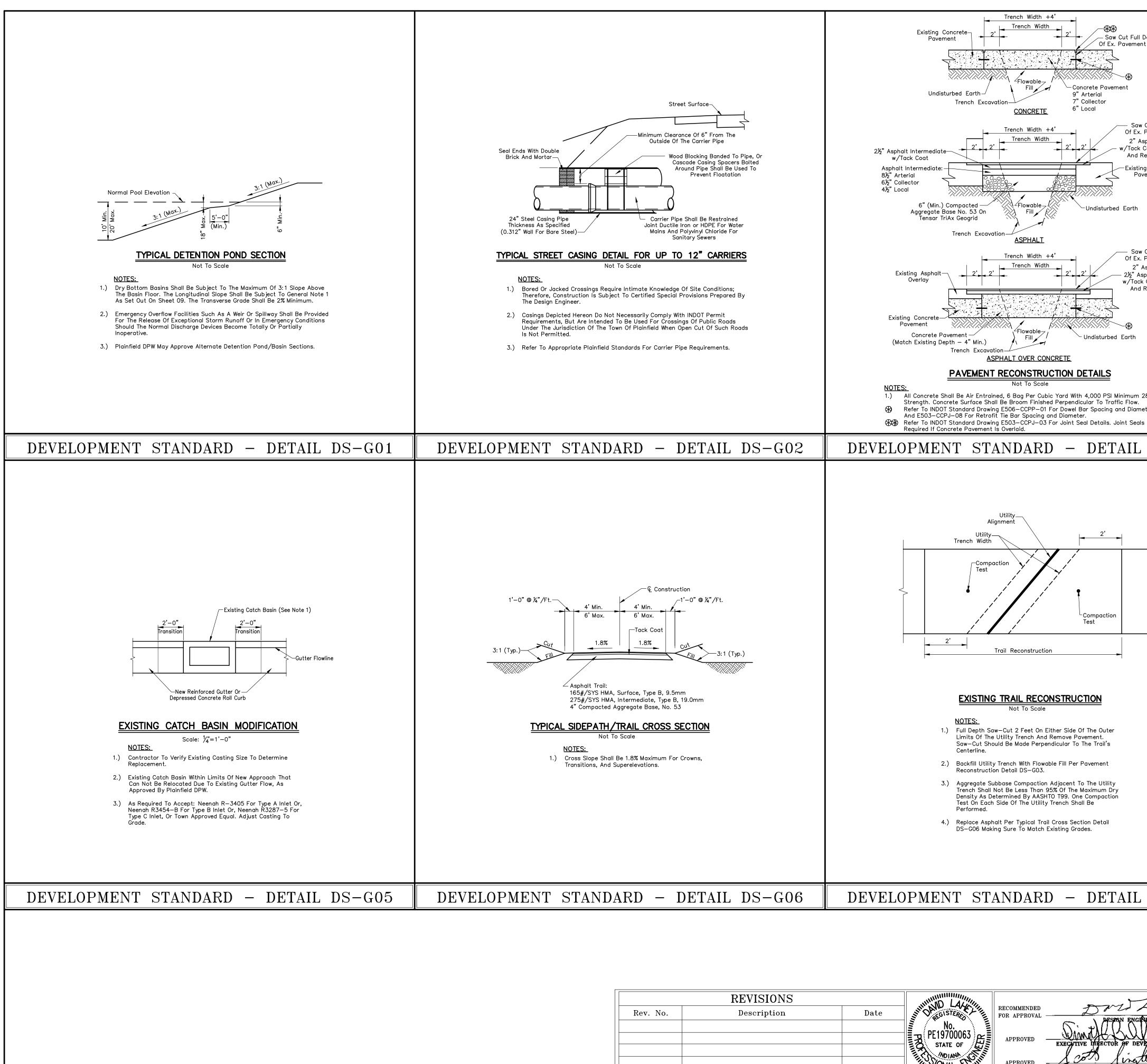


	REVISIONS				
Rev. No.	Description	Date	No No	RECOMMENDED FOR APPROVAL -	DAL A
			PE19700063	APPROVED -	EXECUTIVE DIFECTOR OF DEVE
			MILLING MOLANA COLINI	APPROVED -	DIRECTOR OF TRANSI





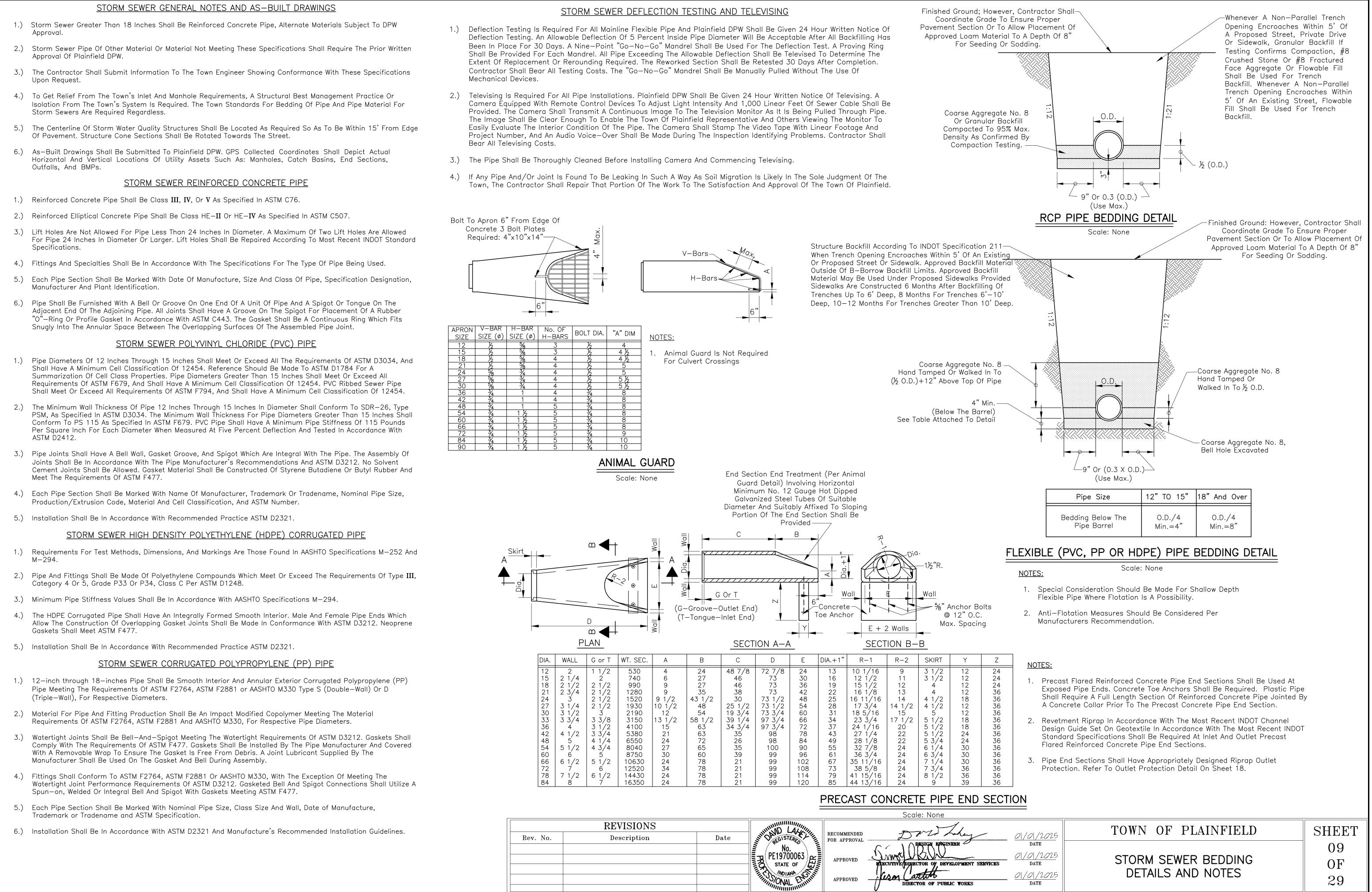
	REVISIONS				
Rev. No.	Description	Date	IN OR GISTERE	RECOMMENDED FOR APPROVAL -	DAL
					(+) pester e
			רופא PE19700063 אין ∎	APPROVED -	_ VIMATE DA
			STATE OF		EXECUTIVE DIRECTOR OF
			- FILL SOME FRUIT	APPROVED -	1 con In
					DIRECTOR OF T

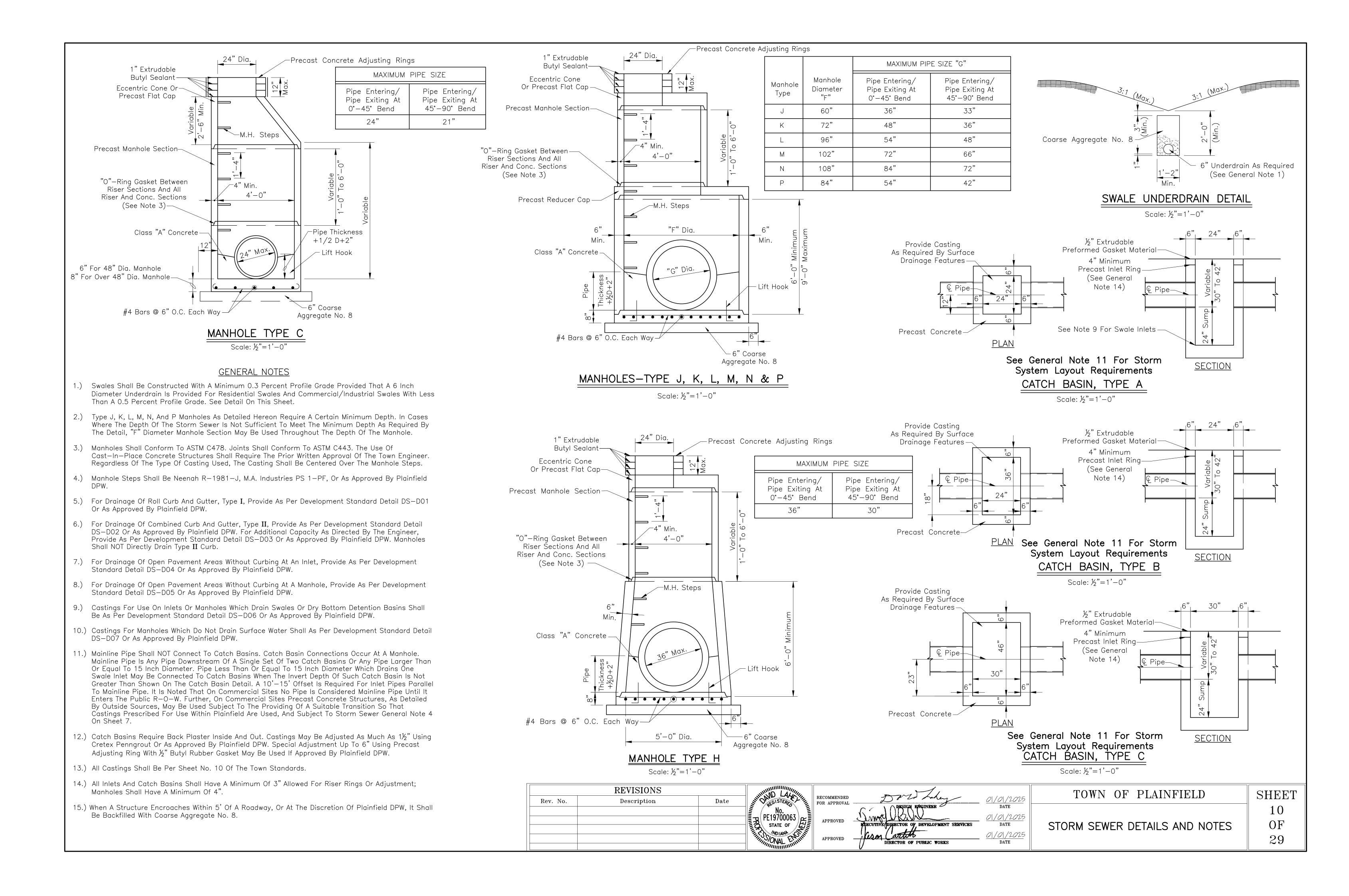


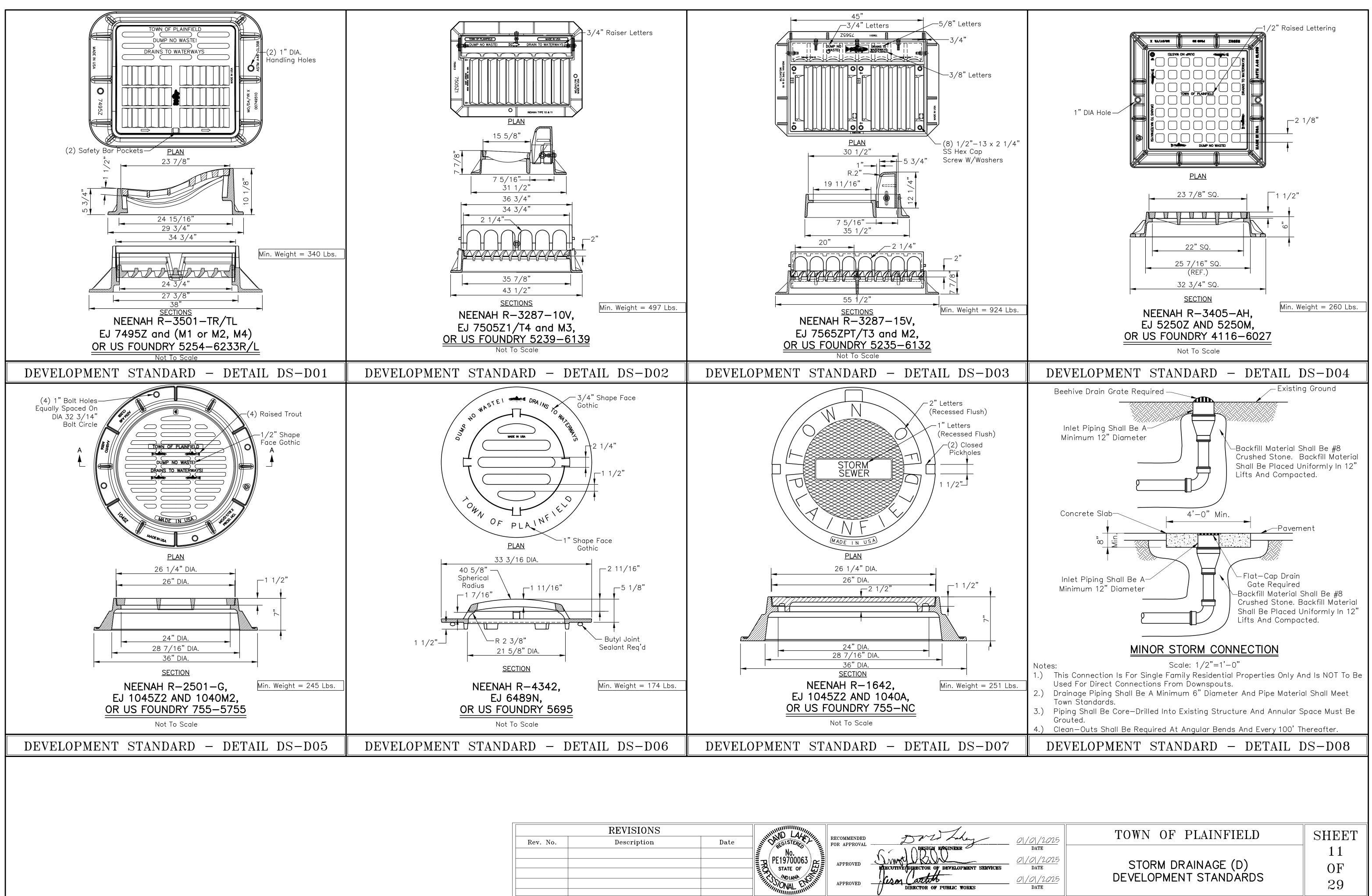
[REVISIONS				
	Rev. No.	Description	Date	NIN ALGISTERES LIT	RECOMMENDED FOR APPROVAL -	DALL A
				PE19700063	APPROVED -	EXECUTIVE INTECTOR OF DEVELO
				MOIANA COLIN	APPROVED -	1 cots fireful
						DIRECTOR OF TRANSPOL

Depth t (Typ.)		
Cut Full Depth Pavement (Typ.) phalt Surface, Coat — 2' Min. Mill esurface (Typ.) g Asphalt ement	Compacted INDOT Cold Mixed Asphalt (CMA) Intermediate, No. 8 or 9: 11½" Arterial 9" Collector 7½" Local 6" (Min.) Compacted Aggregate Base No. 53 Trench Excavation Trench Excavation	o.) phalt ht
Cut Full Depth Pavement (Typ.) sphalt Surface, phalt Intermediate Coat — 2' Min. Mill Resurface (Typ.)	IEMPORARY ASPHALT PATCH EMPORARY PAVEMENT PATCH DETAIL Not To Scale NOTES: 1.) Steel Plate Required Over Trench To Open Roadway To Traffic. Pavement Reconstruction Or Temporary Asphalt Patch To Be Placed Within 48 Hours. 2.) Cold Mixed Asphalt (CMA) Shall Not Be Used When The Ambient Temperature Is Less Than 40°F. Use Flowable Fill To Surface.	
8 Day ter Are Not		
DS-G03	DEVELOPMENT STANDARD – DETAIL D	S-G04
	Utility Alignment 6" Min. Contraction Joint Trench Width Compaction Compaction Test Compaction Test 6" Min. Gompaction 6" Min. Sidewalk Reconstruction Sidewalk Reconstruction Not To Scale	int
	 Not To Scale NOTES: Full Depth Saw-Cut Nearest Contraction Joints Outside Of Utility Trench And Remove Existing Sidewalk. Backfill Utility Trench With Flowable Fill Per Pavement Reconstruction Detail DS-G03. Aggregate Subbase Compaction Adjacent To The Utility Trench Shall Not Be Less Than 95% Of The Maximum Dry Density As Determined By AASHTO T99. One Compaction Test On Each Side Of The Utility Trench Shall Be Performed. Replace Preformed Joint Filler If Removed During Sidewalk Removal. If Utility Alignment Follows The Sidewalk Joint Take Adjacent Sidewalk Panels Out. If Utility Trench Encroaches Within 6" Inches Of Contraction Joint Take Adjacent Sidewalk Panel Out. Replace Sidewalk Per Typical Sidewalk Detail On Sheet 03 Making Sure To Match Existing Grades. 	
DS-G07	DEVELOPMENT STANDARD – DETAIL D	S-G08
LOPMENT SERVICES	TOWN OF PLAINFIELD DATE (0) /2025 DATE GENERAL (G) DEVELOPMENT STANDARDS	SHEET 08 0F
//	DEVELOPMENT STANDARDS	29

•



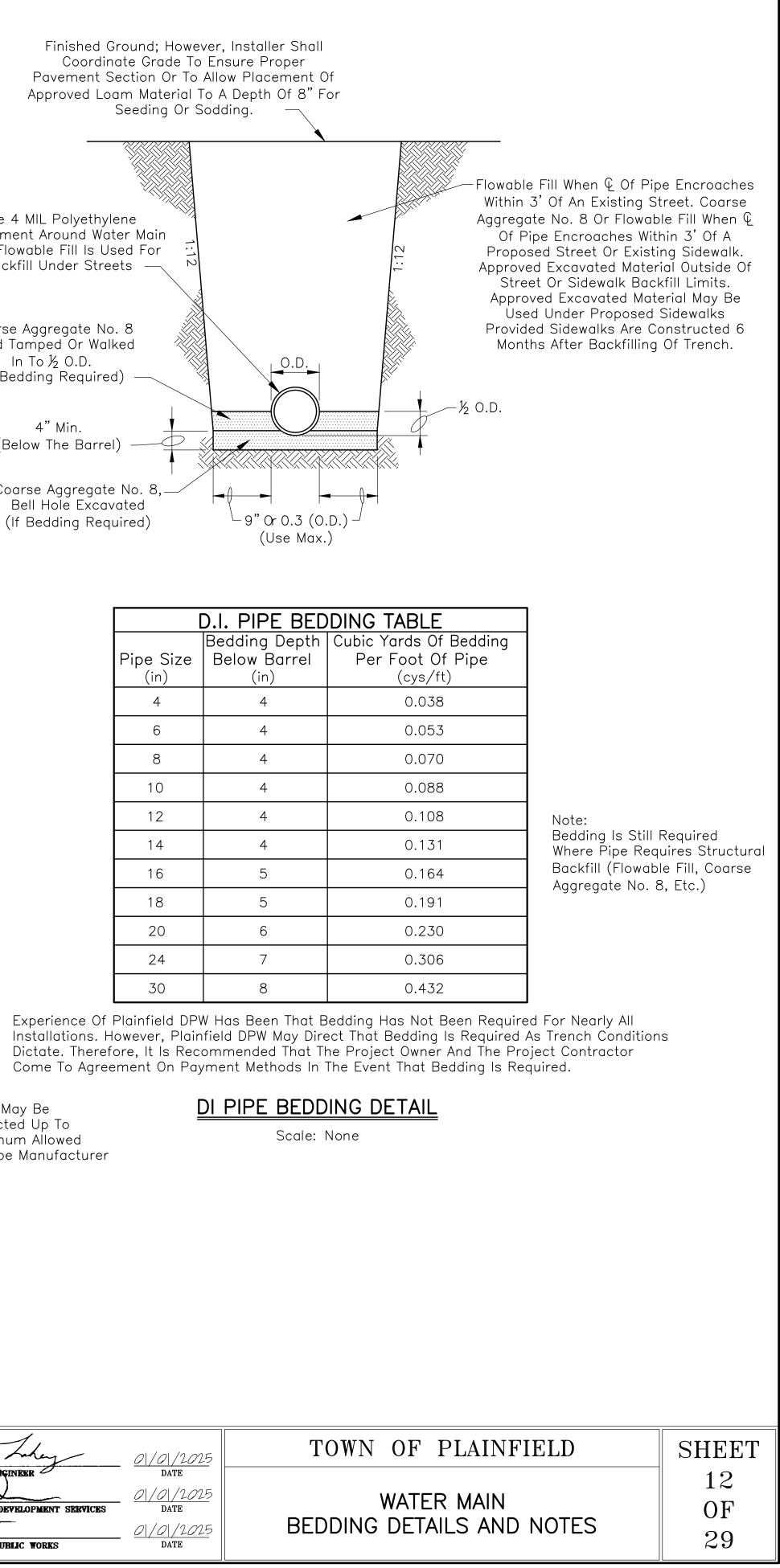


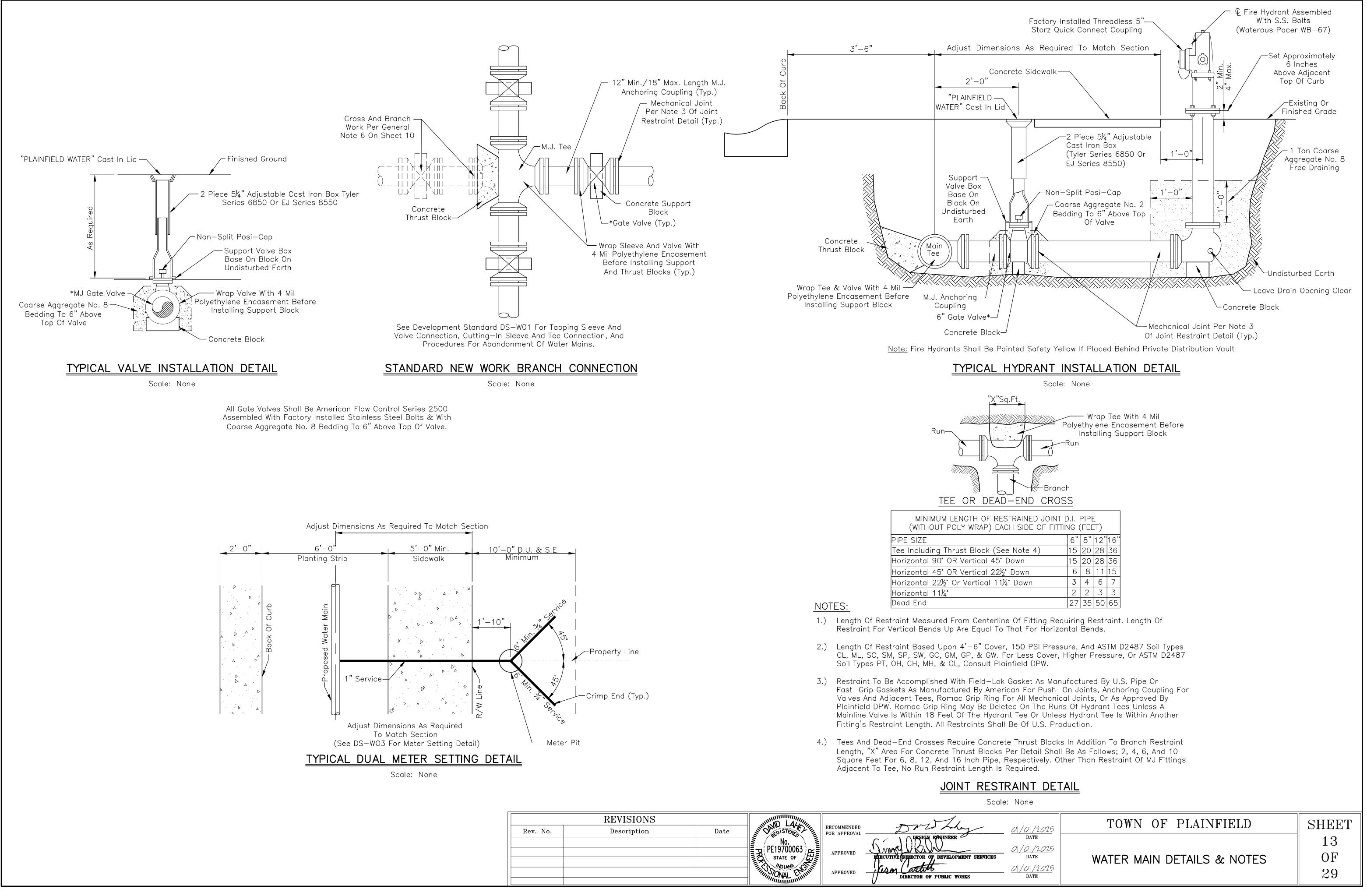


	REVISIONS				
Rev. No.	Description	Date	I'I' OREGISTERE	RECOMMENDED FOR APPROVAL	Druh
			No.		DESIGN ENCINEE
			STATE OF	APPROVED	EXECUTIVE DERECTOR OF DEVELO
			MOIANA CAN		Ceran attit
			MAL Elimin	APPROVED	DIRECTOR OF PUBLIC
					v

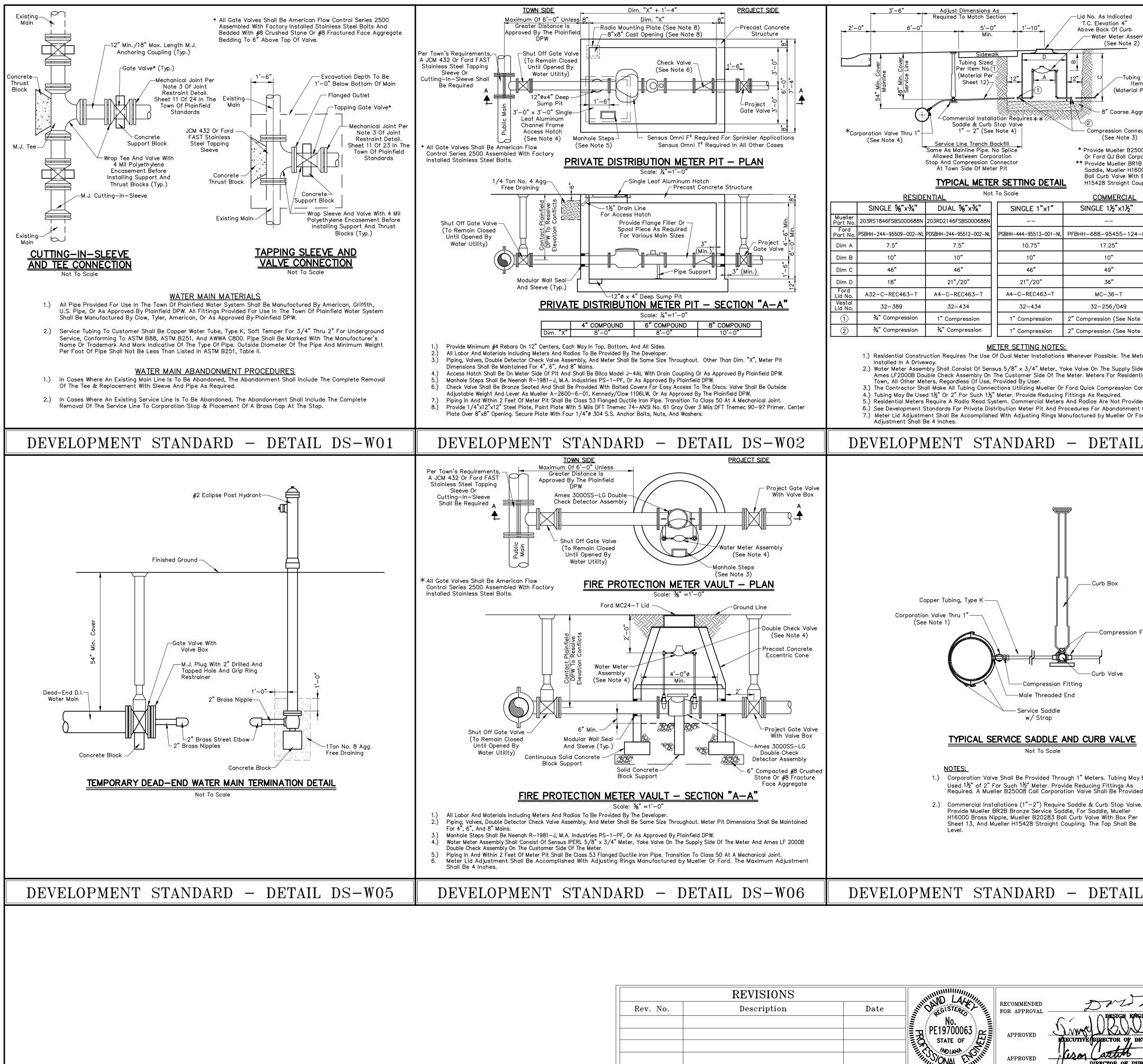
	WATER MAIN MATERIALS
1.)	All Pipe Provided For Use In The Town Of Plainfield Water System Shall Be Of U.S. Production Manufactured By American, U.S. Pipe, Or Town Approved Equal. All Fittings Provided For Use In The Town Of Plainfield Water System Shall Be Of U.S. Production Manufactured By U.S. Pipe, Tyler, American, Or As Approved By Plainfield DPW.
2.)	Ductile Iron Pipe For Water Mains Shall Be Centrifugally Cast And Shall Conform To The Latest Revision Of ANSI A21.5 And AWWA C151. Ductile Iron Pipe With Push—On Or Mechanical Joints Shall Be Special Thickness Class 50. The Pipe Shall Be Provided With A Minimum Laying Length Of 18 Feet.
3.)	Ductile Iron Fittings 3 Inches Through 48 Inches Shall Conform To The Latest Revision Of ANSI A21.10 And AWWA C110. Ductile Iron Compact Fittings 3 Inches Through 16 Inches Shall Conform To The Latest Revision Of ANSI A21.53 And AWWA C153. Fittings In, And Within 2 Feet Of, Structures Shall Be Flanged. All Other Fittings Shall Be Mechanical Joint Type.
4.)	Ductile Iron Pipe Coatings Shall Conform To The Latest Revision Of ANSI A21.51, AWWA C151, ANSI A21.4, And AWWA C104. Interior Pipe Lining Shall Be Cementious Mortar With Asphaltic Seal Coat. Exterior Pipe Coating Shall Be Standard Asphaltic Coating, Except Exposed Piping Within Structures Shall Receive Shop Priming Compatible With Finish Coat.
5.)	Mechanical Joints And Accessories Shall Conform To The Latest Revision Of ANSI A21.10 And AWWA C110. Rubber Gaskets Shall Be Vulcanized Synthetic Rubber And Shall Conform To The Latest Revision Of ANSI A21.11 And AWWA C111.
6.)	Flanged Joints Shall Conform To The Latest Revision Of ANSI A21.15 And AWWA C115. Rubber Gaskets Shall Be Either Ring Or Full Face And Shall Be 1/8" Thick. Bolts And Nuts Shall Conform To ANSI B18.2.1 And ANSI B18.2.2.
7.)	Push—On Joints Shall Conform To The Latest Revision Of ANSI A21.11 And AWWA C111. Rubber Gaskets Shall Be Vulcanized Synthetic Rubber And Shall Conform To The Latest Revision Of ANSI A21.11 And AWWA C111.
8.)	Service Tubing To Customer Shall Be Copper Water Tube, Type K, Soft Temper For 3/4" Through 2" For Underground Service, Conforming To ASTM B88, ASTM B251, And AWWA C800. Pipe Shall Be Marked With The Manufacturer's Name Or Trademark And Mark Indicative Of The Type Of Pipe. Outside Diameter Of The Pipe And Minimum Weight Per Foot Of Pipe Shall Not Be Less Than Listed In ASTM B251, Table II.
9.)	Gate Valves Shall Be In Accordance With AWWA C515 Having Fused Epoxy Coating Inside And Outside Assembled With S.S. Bolts And Shall Be American Flow Control Series 2500. Consult Plainfield DPW For Valves Larger Than 16 Inches. Valves Shall Pass A 250 PSI Factory Test. Valve Boxes Shall Be Furnished With Posi—Caps To Align Box Over Stem.
	WATER MAIN PRESSURE AND LEAKAGE TESTING
1.)	The Town Of Plainfield Shall Be Given 24 Hour Written Notice Of The Required Pressure And Leakage Test To Be Performed By The Contractor. The Pressure And Leakage Test Shall Be Performed In Accordance With The Basic Provisions Of AWWA C600. The Testing Procedure Shall Assume A 100 PSIG Working Pressure. The Test Pressure Shall Not Be Less Than 1.25 Times The Working Pressure At The Highest Point Along The Test Section But Not Less Than 1.5 Times The Assumed Working Pressure At The Point Of Testing. Test Pressure Shall Not Exceed Pipe Or Thrust Restraint Design Pressures Or Rated Pressure Of The Valves. The Test Pressure Shall Not Vary By More Than +5 PSI For The 2 Hour Test Duration.
2.)	Valves Shall Not Be Operated In Either Direction At Differential Pressures Exceeding The Rated Valve Working Pressure.
3.)	The Pressure And Leakage Test Shall Be Performed Following The General Form Of The Following:
	A. Record Time And Line Pressure Prior To Start Of Test.
	B. Pump Water Into New Main Until Pressure Reaches 150 PSIG, Stop Pumping When Pressure Reaches 150 PSIG, Record Time And Line Pressure.
	C. Contractor Shall Remain At Site For One Hour. The Test Shall Be Voided If Any Adjustments Are Made To The Main, Test Equipment, Or Appurtenances. Tightening Of Fittings On Test Equipment Is Allowed. Following The One Hour Period, Record Time And Line Pressure.
	D. Pump Water Into New Main From A Calibrated Container Of Water Until Pressure Reaches 150 PSIG, Stop Pumping When Pressure Reaches 150 PSIG, Record Time, Line Pressure, And Amount Of Water Pumped To The Nearest 1/100 Gallon. The Calibrated Container Shall Have Markings At 1/10 Gallon Increments.
	E. Repeat Steps C And D One Additional Time.
1.)	A Test Section Of Water Main Is Considered Satisfactory If It Meets The Following:
	Main Size (Inches) Allowable Leakage (Gal./Hr./1000 Ft.) 6 0.50 8 0.66 10 0.83 12 0.99 16 1.32
5.)	If The Leakage From A Test Section Is Greater Than Permitted Under These Specifications, The Contractor Shall Locate And Repair The Defective Joints, Mains, And Appurtenances. The Pressure And Leakage Test Shall Then Be Repeated Until Satisfactory Results Are Obtained. All Labor And Materials Required To Meet The Requirements Of The Pressure And Leakage Test Shall Be At The Expense Of The Contractor.

	1.)		WATER MAIN GENERAL	Per The Conr	nection Dete	ails On Sheet 12 Of	The Plainfiel	d	
e	2.)		When Such Runs Or Branc icts Require Special Atten				ss Over		
l Be	2.)	Proposed Mainline To Enable Flatter Over The Water M Storm Pipe Shall Cover To Less The	e Storm Pipe. Such Situat Slopes To The Point Of C Iain. Vertical Water Main F Be Shown On Storm Sewe an 54 Inches, Inlet Pipes	ions May Rea onflict Such ittings Shall er Profiles. W That May Cor	quire Upsizi That 30 Inc Not Be Use 'hen It Is Ne	ng Of Downstream ch Minimum Cover Is d. All Water Main Cr ecessary To Decreas	Storm Pipes 5 Maintained ossings Of 5e Water Mair	٦	
.10	3.)	Water Mains Shal	ass Below The Water Main. I Follow The Alignment Of	The Road €			ind The Back		
Be	4.)	All Water Pipe Sh	Side Of The Street Without all Be Installed In Accordo	ance With AW	WA C600 Ar		Depth Of		
	5.)		es, Except As Provided By End Mains With A Mainline			e Hydrant Assembly	For	Use 4	
A	0.)	Directed Or Appro Eclipse Post Hydr Brass Street Elbo	oved By The Plainfield DPV rant With Tamper—Proof C ow, Brass Nipple, Mueller E	Mains With A Mainline Valve Followed By A Fire Hydrant Assembly. For nate Hydrant Assembly Tee And Terminate With 6" Valve And Fire Hydrant. As d By The Plainfield DPW, Terminate Temporary Dead End Mains With A #2 t With Tamper—Proof Options And Provide #492 Tamper—Proof Wrench With A Brass Nipple, Mueller B20283 Ball Curb Valve With Box, And A Brass Nipple ned Cap. See Development Standard DS—W05.					
	6.)		ole As Determined By Plair tion Of Four Water Mains					A Coarse Hand T	
Го	7.)	See Development	Standard DS-W01 For W	ater Main Ab	andonment	Procedure.		ا (If Be	
	8.)	Actual Horizonta	s Shall Be Submitted To F I And Vertical Locations Release Valves, And Mast	Of Utility As					
2"									
side 1 de V	1.)	And Testing Proc Be Disinfected In Hypochlorite (70	<u>WATER MAIN DISINFEC</u> nfield Shall Be Given 24 H edures To Be Performed B Accordance With ANSI/AW Percent Chlorine), Or Hig de An Initial Minimum Cor	our Written N By The Contro VWA C-651. h-Test Sodiu	Notice Of Th actor. All Ne Liquid Chlor um Hypochle	ne Required Disinfec ewly Installed Water rine, High—Test Calc orite (14.7 Percent	Mains Shall tium Chlorine) Ma		
	2.)	A Minimum Conce	entration Of 10 mg/L Of I ains For 24 Hours Of Con		e Shall Be M	laintained In All Par	ts Of The		
all The	3.)	Following The Init Water Shall Be Pr	ial 24 Hour Contact Time roperly Dechlorinated and ne Replacement Water Has	But Prior To Thoroughly F	Flushed Fro	m The Newly Laid P	ipe At Its		
ne Not	4.)	After Flushing, Wo As Directed By Th	ater Samples Collected Or ne Town Of Plainfield, Sha ceriological Tests, Contrac	n Two Succes Il Show Satis	ssive Days F factory Bac	From The Treated P steriological Tests. F	ping System ollowing	,	
ł	5.)		Drinking Water Branch. mples And The Testing Of	Chlorine Res	sidual Shall	Be Carried Out By	- he		
ing:	5.)	5	e Direction Of The Town Of			be carried out by	ile ile		
	-		9'-6" Min.			9'-6" Min.			
re		****			- Finisł	ned Ground	~~~~~	~~~	
					, ← HDPF	۲۲۲۲ E Casing Pipe Per			
S		Cente	ter Main Pipe Section ered Over Storm Sewer 60" Minimum Cover)		Storr	m Sewer Specificati mum 1 Size Larger		·)	
150				/	Invert	5" Minimum Above			
ave ()					Top O	f Storm Sewer Wall			
	L_G	rout Ends Of Casi	ng /		$\langle \rangle$			Joint Ma	
	Loir	nt May Be Deflecte	ed (/			Grout Enc	s Of Casing-	_/ Deflecte Maximul	
	Up ⁻	To Maximum wed By Pipe Manu				-Mainline Storm Sev	ver	By Pipe	
			1.) HDPE Casing Pipe Re Crossings Which Viol Separation Required Water Main General N	ate The 18 Ir By Ten State	nch Minimur	n Vertical			
e sure nd			2.) Fittings May Be Requ Shallower Than Norm	uired To Redu nal Water Mai					
he		C	Storm Sewer Conflict SPECIAL STORM S		NFLICT	TREATMENT			
		<u> </u>		Scale: Non	e				
			REVISIONS			INTERNAL LAND	RECOMMENDED	part.	
		Rev. No.	Description		Date	No. PE19700063 STATE OF MOLANA ONAL FUILING	APPROVED APPROVED	DESIGN ENCIT MARTINE MECUTIVE DIRECTOR OF DEV DIRECTOR OF PUBL	





	REVISIONS				
Rev. No.	Description	Date	IN OALGISTERES LI	RECOMMENDED FOR APPROVAL	Drui
			TE PE19700063	APPROVED	EXECUTIVE DIRECTOR OF DE
			MOIANA		1 th
			MINIONAL ENTIT	APPROVED	DIRECTOR OF PU



<u>Dim. "X" + 1'-4"</u> <u>Dim. "X" 8"</u>	3'-6" Adjust Dimensions As Required To Match Section Lid No. As Indicated	
Dim. "X" Precast Concrete 8'x8" Cost Opening (See Note 8) Precast Concrete Structure Check Valve Image: Concrete Structure Image: Concrete Structure Image: Concrete Structure Image: Concrete Structure Image: Concrete Structure Image: Concrete Structure Image: Concrete Structure Sensus Omni F ² Required In All Other Cases Image: Concrete Structure Precast Concrete Structure Image: Concrete Structure Provide Flange Filler Or Provide Flange Filler Or Solo Piece As Required Provide Flange Filler Or Project To Concrete Structure Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W = 1 - 0" Image: W =	2-0° 6'-0° 1'-0° To. Elevation 4" Above Bock Of Curb Water Meter Assembly Water Meter Assembly Water Meter Assembly **Corporation Valve Tru 1' Steel 12' Service Line Transh Bocking ** Corporation Valve Tru 2' **Corporation Valve Tru 1' Steel 12' Service Line Transh Bocking ** Corporation Valve Tru 2' Service Line Transh Bocking ** Provide Mueler 823008 Boil Corporation Valve Or provide Mueler Box Dob Bock Doporation Valve Or Foroide Mueler 82308 Boil Corporation Valve Of Provide Mueler Box Bosh Bool Doporation Valve Or Foroide Mueler 82308 Boil Corporation Valve Meeding Stored Prove The Socie Commercial Installation Flexibility More Box Bosh Stored Prove The Socie Commercial Installation Flexibility Meeding Stored Prove The Socie Commercial Installation Flexibility Meeding Stored Prove The Socie Compression Commercial Installation Meter Flexibility Meeding Stored Prove The Socie Commercial Installation Meter Flexibility <td><image/><text><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></text></td>	<image/> <text><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></text>
NDARD – DETAIL DS–W02 DE PROJECT SIDE	DEVELOPMENT STANDARD - DETAIL DS-W03	DEVELOPMENT STANDARD - DETAIL DS-W04
ice is Plainfield SS-LG Double SS-LG Double SS-LG Double SS-LG Double Tor Assembly Water Meter Assembly Utility) Water Meter Assembly Scele: $\frac{1}{26}$ " = 1'-0" Ford MC24-T Lid Ground Line Ford MC24-T Lid Ford MC24-T Lid Ground Line Ford MC24-T Lid Ground Line Ford MC24-T Lid Ford MC24-	Copper Tubing, Type K Ourb Box Corporation Valve Thu 1* Compression Fitting Visit 10* Compression Fitting Male Threaded End Service Scade Visit 2* DETECAL SERVICE Scade Notes Notes Notes	
NDARD – DETAIL DS-W06	DEVELOPMENT STANDARD - DETAIL DS-W07	
REVISIONS Rev. No. Description	No. PE19700063 STATE OF MOIANA APPROVED A	Image: Constraint of the second stateTOWN OF PLAINFIELDSHEETDATE1414Image: Optimized state000000000000000000000000000000000
	DIRECTOR OF PUBLIC WORKS	

•

Γ		SANITARY SEWER REINFORCED CONCRETE PIPE
	1.)	Reinforced Concrete Pipe For Use As Sanitary Sewers Shall Be Class III, IV, Or V As Specified By Design Engineer Per ASTM C76. Lift Holes Shall Not Be Permitted.
	2.)	Each Section Of Reinforced Concrete Pipe Shall Be Vacuum Tested By The Manufacturer Prior To Delivery To The Job Site. Only Pipe Sections Passing Vacuum Test Shall Be Marked As "Vacuum Tested". Vacuum Test Requirements Are As Follows:
		A. Each Section Of Pipe Shall Tested By Bringing The Internal Pressure Within The Pipe To 3.5 PSIG Below Atmospheric Pressure And The Pressure Must Not Drop To Less Than 2.5 PSIG Below Atmospheric Pressure Within The Time Limitation As Determined By The Following:
		T= <u>0.022 D2</u> 2 Where: T = Time In Seconds D = Diameter Of Pipe In Inches L = Length Of Pipe In Feet
		B. Any Pipe Section Failing To Meet This Test Shall Not Be Permitted For Use As Sanitary Sewers In The Town Of Plainfield.
	3.)	Lateral Connections Shall Be Made With KOR-N-Tee, Inserta-Tee, Or Town Approved Equal.
	4.)	Each Pipe Section Shall Be Marked With The Date Of Manufacture, Size, And Class Of Pipe, Specification Designation, Manufacturer And Plant Identification.
	5.)	Pipe Shall Be Furnished With A Bell Or Groove On One End Of A Unit Of Pipe And A Spigot Or Tongue On The Adjacent End Of The Adjoining Pipe. All Joints Shall Have A Groove On The Spigot For Placement Of A Rubber "O"—Ring Or Profile Gasket In Accordance With ASTM C443. The Gasket Shall Be A Continuous Ring Which Fits Snugly Into The Annular Space Between The Overlapping Surfaces Of The Assembled Pipe Joint To Form A Flexible, Watertight Joint Under All Conditions Of Service.
		SANITARY SEWER POLYVINYL CHLORIDE (PVC) PIPE
	1.)	PVC Pipe Diameters Of 8 Inches Through 15 Inches Shall Meet Or Exceed All Requirements Of ASTM D3034, And Shall Have A Minimum Cell Classification Of 12454. Reference Should Be Made To ASTM D1784 For A Summarization Of Cell Class Properties. PVC Pipe Diameters Greater Than 15 Inches Shall Meet Or Exceed All Requirements Of ASTM F679, And Shall Have A Minimum Cell Classification Of 12454.
	2.)	The Minimum Wall Thickness Of PVC Pipe 8 Inches Through 15 Inches In Diameter Shall Conform To SDR—35, Type PSM, As Specified In ASTM D3034 (See Note 5 For Fittings). The Minimum Wall Thickness For P.V.C. Pipe Greater Than 15 Inches Shall Conform To PS 46 As Specified In ASTM F679. P.V.C. Pipe Shall Have A Minimum Pipe Stiffness Of 46 Pounds Per Square Inch For Each Diameter When Measured At Five Percent Deflection And Tested In Accordance With ASTM D2412.
	3.)	All PVC Sanitary Sewers With A Cover Depth Of 15 Feet Or Greater Shall Be SDR 26 Or PS 115 Rated.
	4.)	PVC Open Profile Or Closed Profile Sewer Pipe Shall Meet Or Exceed All Requirements Of ASTM F794 Or ASTM F949, And Shall Have A Minimum Cell Classification Of 12454 And A Minimum Uniform Pipe Stiffness Of 50 Pounds Per Square Inch For Each Diameter When Measured At Five Percent Deflection And Tested In Accordance With ASTM D2412 (See Note 5 For Fittings).
	5.)	Pipe Joints Shall Have A Bell Wall, Gasket Groove, And Spigot Which Is Integral With The Pipe. The Assembly Of Joints Shall Be In Accordance With Pipe Manufacturer's Recommendations And ASTM D3212. Solvent Cement Joints Shall Not Be Allowed For Mainline Pipe.
	6.)	Pipe Fittings Shall Be SDR—26 Manufactured Fittings Made Of PVC Plastic Having A Cell Classification Of 12454 As Defined In ASTM D1784. Saddle Connections Shall Not Be Allowed For New Construction. Lateral Connections Shall Occur At SDR—26 Tee—Wyes.
	7.)	Each Pipe Section Shall Be Marked With The Name Of Manufacturer, Trademark Or Tradename, Nominal Pipe Size, Production/Extrusion Code, Material And Cell Classification, And ASTM Number.
	8.)	Installation Shall Be In Accordance With Recommended Practice ASTM D2321.
		SANITARY SEWER GENERAL NOTES AND AS-BUILT DRAWINGS
	1.)	See Development Standards DS-S01, DS-S02, For Sanitary Sewer Lateral Requirements.
	2.)	Sanitary Sewer Pipe Of Other Material Or Material Not Meeting These Specifications Shall Require The Prior Written Approval Of Plainfield DPW.
	3.)	The Contractor Shall Submit Information To The Town Engineer Showing Conformance With These Specifications Upon Request.
	4.)	As—Built Drawings Shall Be Submitted To Plainfield DPW. GPS Collected Coordinates Shall Depict Actual Horizontal And Vertical Locations Of Utility Assets Such As: Manholes, Laterals, Stubs, Air Release Valves, Flushing Stations, Cleanouts, Risers, And Pump Stations/Wet Wells.
		SANITARY SEWER DEFLECTION TESTING AND TELEVISING
	1.)	Deflection Testing Is Required For All Mainline Flexible Pipe And Plainfield DPW Shall Be Given 24 Hour Written Notice Of Deflection Testing. An Allowable Deflection Of 5 Percent Inside Pipe Diameter Will Be Acceptable Afte All Backfilling Has Been In Place For 30 Days. A Nine Point "Go–No–Go" Mandrel Shall Be Used For The Deflection Test. A Proving Ring Shall Be Provided For Each Mandrel. All Pipe Exceeding The Allowable Deflection Shall Be Televised To Determine The Extent Of Replacement Or Rerounding Required. The Reworked Section S Be Retested 30 Days After Completion. Contractor Shall Bear All Testing Costs. The "Go–No–Go" Mandrel Sha Be Manually Pulled Without The Use Of Mechanical Devices.
	2.)	Following Air And Mandrel Testing, Televising Is Required. Plainfield DPW Shall Be Given 24 Hour Written Notice Televising. A Camera Equipped With Remote Control Devices To Adjust Light Intensity And 1,000 Linear Feet C Sewer Cable Shall Be Provided. The Camera Shall Transmit A Continuous Image To The Television Monitor As I Being Pulled Through Pipe. The Image Shall Be Clear Enough To Enable The Town Of Plainfield Representative And Others Viewing The Monitor To Easily Evaluate The Interior Condition Of The Pipe. The Camera Shall Stam The DVD With Manhole Number, Lateral Distance From Manhole, Linear Footage And Project Number, And An Audio Voice—Over Shall Be Made During The Inspection Identifying Problems. Contractor Shall Bear All Televis Costs.
	3.)	The Pipe Shall Be Thoroughly Cleaned Before Installing Camera And Commencing Televising.
	4.)	If Any Pipe And/Or Joint Is Found To Be Leaking, Regardless Of The Results Leakage Testing, In The Sole Judgement Of The Town, The Contractor Shall Repair That Portion Of The Work To The Satisfaction And Appro Of The Town Of Plainfield.

Be Performed By The Contractor. Low Pressure Air Shall Be Slowly Introduced Into The Sealed Line Until The Internal Air Pressure Reaches 4 PSIG Plus The Groundwater Head Divided By 2.31 (Maximum Test Pressure ls 9 PSIG).

SANITARY SEWER LEAKAGE TESTING

1.) The Town Of Plainfield Shall Be Given 24 Hour Written Notice Of The Required Leakage Testing Procedure To

2.) At A Stable Internal Air Pressure Within 0.5 PSIG Of The Initial Internal Air Pressure, Timing Shall Commence With A Stopwatch Or Similar Device Of 99.8 Percent Accuracy. Timing Shall End When The Internal Air Pressure Drops 1 PSIG Below The Stable Internal Air Pressure.

TABLE 1

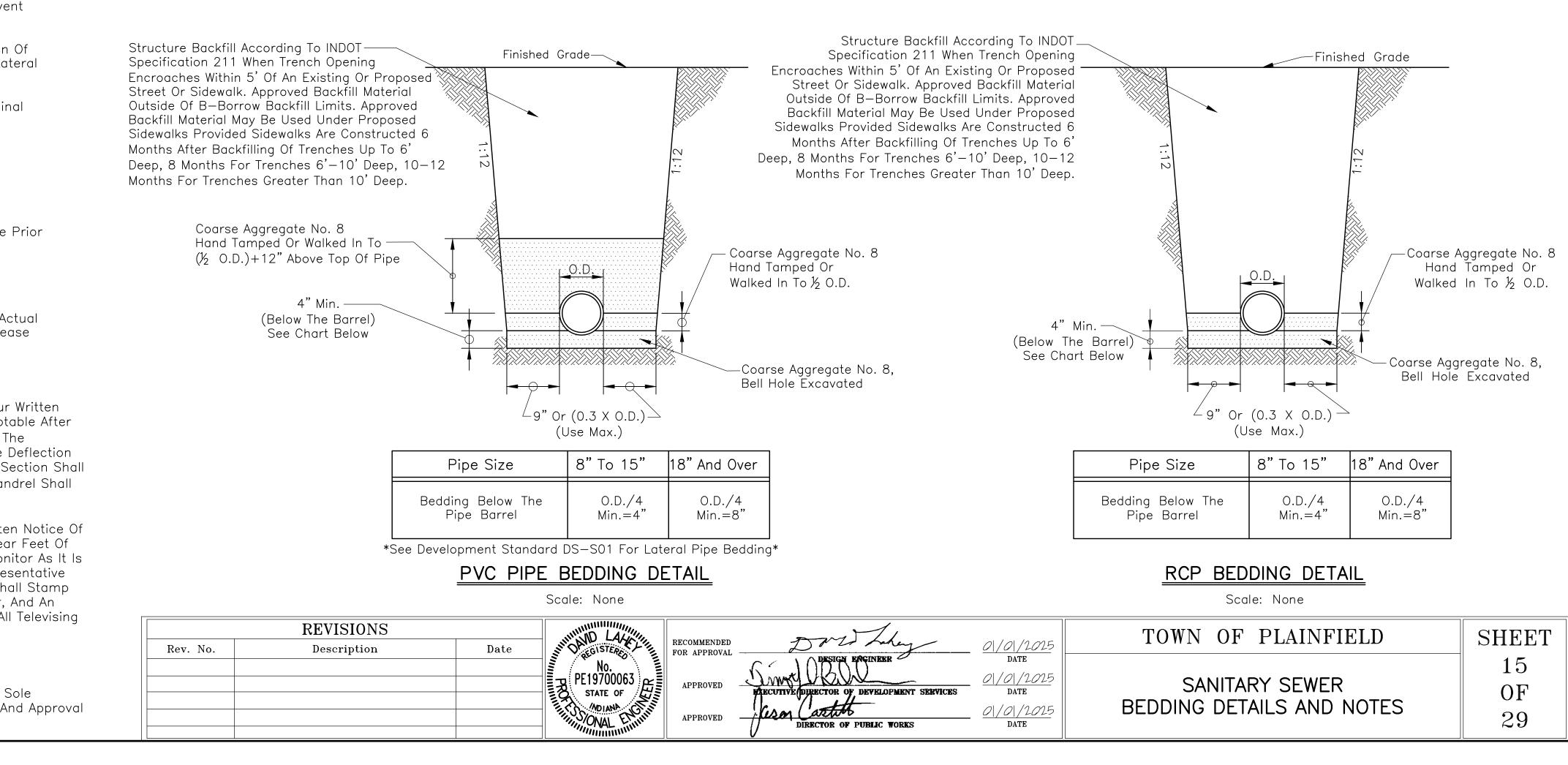
SPECIFICATION TIME REQUIRED FOR A 1.0 PSIG PRESSURE DROP

3.) The Line Shall Be Accepted If The Time Shown In <u>Table 1</u> For The Designated Pipe Size And Length Elapses 3.) The Pressure And Leakage Test Shall Be Performed Following The General Form Of The Following: Before The Air Pressure Drops 1 PSIG Below The Stable Internal Air Pressure At Which Time The Test Can Be Discontinued For The Accepted Line. A. Record Time And Line Pressure Prior To Start Of Test.

1 Pipe Diameter		For	4 Time For	Specification Time For Length (L) Shown (Min.:Sec.)							
(In.)	(Min:Sec)	Minimum Time (Ft.)	Longer Length (Sec.)	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	350 Ft.	400 Ft.	450 Ft
4	3:46	597	.380L	3:46	3:46	3:46	3:46	3:46	3:46	3:46	3:46
6	5:40	398	.854L	5:40	5:40	5:40	5:40	5:40	5:40	5:42	6:24
8	7:34	298	1.520L	7:34	7:34	7:34	7:34	7:36	8:52	10:08	11:24
10	9:26	239	2.374L	9:26	9:26	9:26	9:53	11:52	13:51	15:49	17:48
12	11:20	199	3.418L	11:20	11:20	11:24	14:15	17:05	19:56	22:47	25:38
15	14:10	159	5.342L	14:10	14:10	17:48	22:15	26:42	31:09	35:36	40:04
18	17:00	133	7.692L	17:00	19:13	25:38	32:03	38:27	44:52	51:16	57:41
21	19:50	114	10.470L	19:50	26:10	34:54	43:37	52:21	61:00	69:48	78:31
24	22:40	99	13.674L	22:47	34:11	45:34	56:58	68:22	79:46	91:10	102:33
27	25:30	88	17.306L	28:51	43:16	57:41	72:07	86:32	100:57	115:22	129:48
30	28:20	80	21.366L	35:37	53:25	71:13	89:02	106:50	124:38	142:26	160:15
33	31:10	72	25.852L	43:05	64:38	86:10	107:43	129:16	150:43	172:21	193:53
36	34:00	66	30.768L	51:17	76:55	102:34	128:12	153:50	179:29	205:07	230:46

NOTE:

For More Efficient Testing Of Long Test Sections And/Or Sections Of Larger Diameter Pipes, A Timed Pressure Drop Of 0.5 PSIG May Be Used In Lieu Of The 1.0 PSIG Timed Pressure Drop. If A 0.5 PSIG Pressure Drop Is Used, The Required Test Time Shall Be Exactly Half As Long As Those Shown Above.



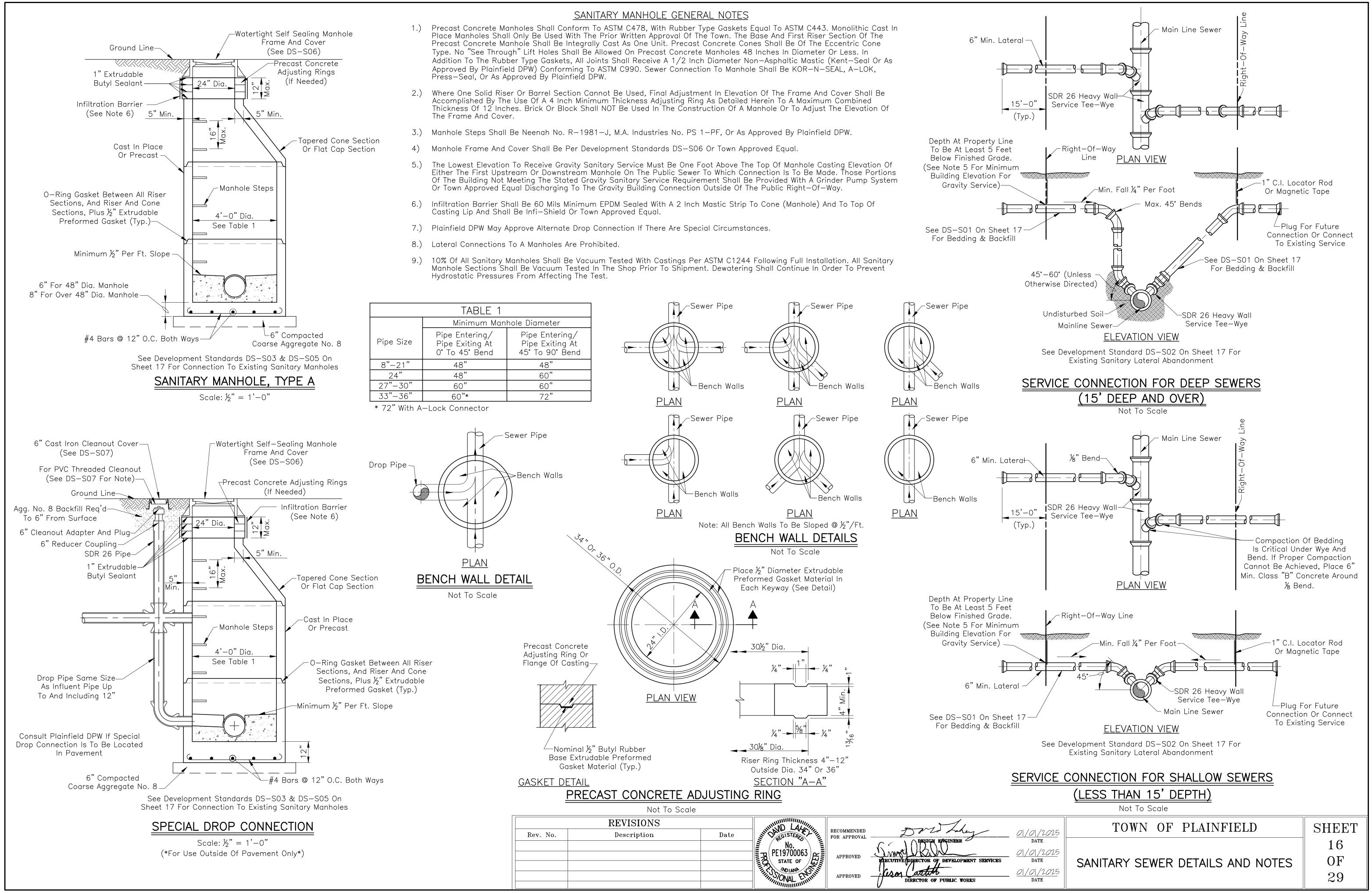
SANITARY FORCE MAIN PRESSURE AND LEAKAGE TESTING

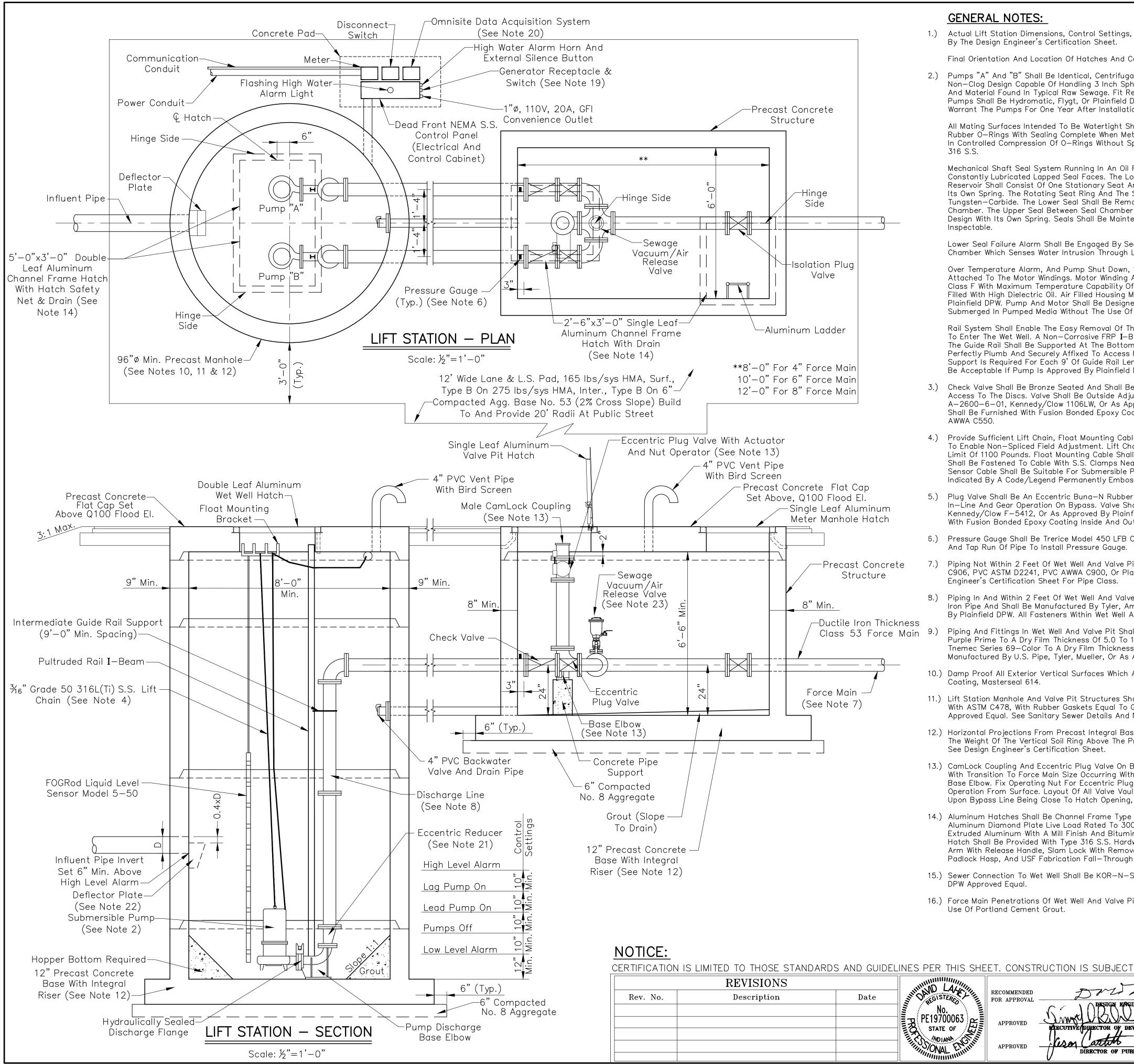
- 1.) The Town Of Plainfield Shall Be Given 24 Hour Written Notice Of The Required Pressure And Leakage Test To Be Performed By The Contractor. The Pressure And Leakage Test Shall Be Performed In Accordance With The Basic Provisions Of AWWA C600. All Force Mains Shall Be Given A Hydrostatic Test Of At Least 1.5 Times The Shutoff Head Of The Connected Pumps Or 150 PSI, Whichever is Lesser. Test Pressure Shall Not Exceed Pipe Restraint Design Pressures Or Rated Pressure Of The Valves. Loss Of Water Pressure During Test Shall Not Exceed 5 PSI In A 2 Hour Test Period.
- 2.) Valves Shall Not Be Operated In Either Direction At Differential Pressures Exceeding The Rated Valve Working Pressure.
 - B. Pump Water Into New Force Main Until Pressure Reaches At Least 1.5 Times The Shutoff Head Of The Connected Pumps Or 150 PSIG, Stop Pumping And Record Time And Line Pressure.
 - C. Contractor Shall Remain At Site For One Hour. The Test Shall Be Voided If Any Adjustments Are Made To The Force Main, Test Equipment, Or Appurtenances. Tightening Of Fittings On Test Equipment Is Allowed. Following The One Hour Period, Record Time And Line Pressure.
 - D. Pump Water Into New Force Main From A Calibrated Container Of Water Until Pressure Reaches 150 PSIG, Stop Pumping When Pressure Reaches 150 PSIG, Record Time, Line Pressure, And Amount Of Water Pumped To The Nearest 1/100 Gallon. The Calibrated Container Shall Have Markings At 1/10 Gallon Increments.
 - E. Repeat Steps C And D One Additional Time.
- 4.) A Test Section Of Force Main Is Considered Satisfactory If It Meets The Following:

Main Size (Inches) Allowable Leakage (Gal./Hr./1000 Ft.)

1	0.33
5	0.50
3	0.66
0	0.83
2	0.99

5.) If The Leakage From A Test Section Is Greater Than Permitted Under These Specifications, The Contractor Shall Locate And Repair The Defective Joints, Mains, And Appurtenances. The Pressure And Leakage Test Shall Then Be Repeated Until Satisfactory Results Are Obtained. All Labor And Materials Required To Meet The Requirements Of The Pressure And Leakage Test Shall Be At The Expense Of The Contractor.





GENERAL NOTES:

- By The Design Engineer's Certification Sheet.
- Final Orientation And Location Of Hatches And Control Panel Are To Be Field Verified.
- Non-Clog Design Capable Of Handling 3 Inch Sphere Solids, Fibrous Material, Sludge, And Material Found In Typical Raw Sewage. Fit Replaceable Bronze Wear Ring To Volute. Pumps Shall Be Hydromatic, Flygt, Or Plainfield DPW Approved Equal. Manufacturer Shall Warrant The Pumps For One Year After Installation.

All Mating Surfaces Intended To Be Watertight Shall Be Machined And Fitted With Nitrile Rubber O-Rings With Sealing Complete When Metal To Metal Contact Is Made, Resulting In Controlled Compression Of O-Rings Without Specific Torque Limit. Fasteners Shall Be 316 S.S.

Mechanical Shaft Seal System Running In An Oil Reservoir Shall Have Separate, Constantly Lubricated Lapped Seal Faces. The Lower Seal Unit Between Media And Oil Reservoir Shall Consist Of One Stationary Seat And One Rotating Ring Held In Place By Its Own Spring. The Rotating Seat Ring And The Stationary Seat Ring Shall Be Made Of Tungsten-Carbide. The Lower Seal Shall Be Removable Without Disassembling The Seal Chamber. The Upper Seal Between Seal Chamber And Motor Shall Be Of The Same Design With Its Own Spring. Seals Shall Be Maintenance Free, But Shall Be Easily Inspectable.

Lower Seal Failure Alarm Shall Be Engaged By Seal Failure Sensor Provided In The Seal Chamber Which Senses Water Intrusion Through Lower Seal.

Over Temperature Alarm, And Pump Shut Down, Shall Be Engaged By Heat Sensor Attached To The Motor Windings. Motor Winding And Stator Lead Insulation Shall Be Class F With Maximum Temperature Capability Of 155° C Or Better. Housing Shall Be Filled With High Dielectric Oil. Air Filled Housing May Be Acceptable When Approved By Plainfield DPW. Pump And Motor Shall Be Designed To Operate Partially Or Fully Submerged In Pumped Media Without The Use Of Cooling Jackets.

Rail System Shall Enable The Easy Removal Of The Pump Without The Need For A Person To Enter The Wet Well. A Non-Corrosive FRP I-Beam Shall Be Provided For Each Pump. The Guide Rail Shall Be Supported At The Bottom By The Discharge Elbow, Aligned Perfectly Plumb And Securely Affixed To Access Frame. One Intermediate Guide Rail Support Is Required For Each 9' Of Guide Rail Length. Schedule 40 S.S. Guide Rails May Be Acceptable If Pump Is Approved By Plainfield DPW.

- 3.) Check Valve Shall Be Bronze Seated And Shall Be Provided With Bolted Covers For Easy Access To The Discs. Valve Shall Be Outside Adjustable Weight And Lever As Mueller A-2600-6-01, Kennedy/Clow 1106LW, Or As Approved By Plainfield DPW. The Valve Shall Be Furnished With Fusion Bonded Epoxy Coating Inside And Out In Accordance With AWWA C550.
- 4.) Provide Sufficient Lift Chain, Float Mounting Cable, And Pump Power And Sensor Cable To Enable Non-Spliced Field Adjustment. Lift Chain Shall Have A Minimum Work Load Limit Of 1100 Pounds. Float Mounting Cable Shall Be Held In Place By Weight, Floats Shall Be Fastened To Cable With S.S. Clamps Near Each Float Location. Pump Power And Sensor Cable Shall Be Suitable For Submersible Pump Applications And This Shall Be So Indicated By A Code/Legend Permanently Embossed On The Cable.
- 5.) Plug Valve Shall Be An Eccentric Buna-N Rubber Faced Plug With Hand Lever Operation In-Line And Gear Operation On Bypass. Valve Shall Be Valmatic F-5800-R, Kennedy/Clow F-5412, Or As Approved By Plainfield DPW. The Valve Shall Be Furnished With Fusion Bonded Epoxy Coating Inside And Out In Accordance With AWWA C550.
- 6.) Pressure Gauge Shall Be Trerice Model 450 LFB Or Plainfield DPW Approved Equal. Drill And Tap Run Of Pipe To Install Pressure Gauge.
- 7.) Piping Not Within 2 Feet Of Wet Well And Valve Pit Shall Be DI AWWA C151, HDPE AWWA C906. PVC ASTM D2241, PVC AWWA C900, Or Plainfield DPW Approved Equal. See Design Engineer's Certification Sheet For Pipe Class.
- 8.) Piping In And Within 2 Feet Of Wet Well And Valve Pit Shall Be Class 53 Flanged Ductile Iron Pipe And Shall Be Manufactured By Tyler, American, Or U.S. Pipe, Or As Approved By Plainfield DPW. All Fasteners Within Wet Well And Valve Vault Shall Be 316 S.S.
- Class 53 Force Main 9.) Piping And Fittings In Wet Well And Valve Pit Shall Be Factory Primed Tnemec Series Purple Prime To A Dry Film Thickness Of 5.0 To 11.0 Mils And Shall Be Field Painted With Tnemec Series 69-Color To A Dry Film Thickness Of 5.0 To 6.0 Mils. Fittings Shall Be Manufactured By U.S. Pipe, Tyler, Mueller, Or As Approved By Plainfield DPW.
 - 10.) Damp Proof All Exterior Vertical Surfaces Which Are Backfilled Against With Bituminous Coating, Masterseal 614.
 - 11.) Lift Station Manhole And Valve Pit Structures Shall Be Precast Concrete In Accordance With ASTM C478, With Rubber Gaskets Equal To Gasket Material Or Plainfield DPW Approved Equal. See Sanitary Sewer Details And Notes Sheet For Manhole Steps.
 - The Weight Of The Vertical Soil Ring Above The Projection To Resist Buoyancy Forces. See Design Engineer's Certification Sheet.
 - 13.) CamLock Coupling And Eccentric Plug Valve On Bypass Line Shall Be 4 Inch Diameter With Transition To Force Main Size Occurring With Concentric Reducer Placed On Top Of Base Elbow. Fix Operating Nut For Eccentric Plug In Vertical Position To Enable Wrench Operation From Surface. Layout Of All Valve Vault Fittings And Equipment To Be Based Upon Bypass Line Being Close To Hatch Opening, As Shown.
 - 14.) Aluminum Hatches Shall Be Channel Frame Type Flygt Safe—Hatch. Leaf Shall Be $\frac{1}{2}$ Inch Aluminum Diamond Plate Live Load Rated To 300 PSF. Channel Frame Shall Be ½ Inch Extruded Aluminum With A Mill Finish And Bituminous Coating On Exterior Surfaces. Hatch Shall Be Provided With Type 316 S.S. Hardware Throughout, Automatic Hold-Open Arm With Release Handle, Slam Lock With Removable Handle, $1-\frac{1}{2}$ Inch Drain Coupling, Padlock Hasp, And USF Fabrication Fall-Through Protection Hatch Safety Net.
 - 15.) Sewer Connection To Wet Well Shall Be KOR-N-SEAL, A-LOK, Press-Seal, Or Plainfield DPW Approved Equal.
 - 16.) Force Main Penetrations Of Wet Well And Valve Pit Shall Be Made Watertight Through The Use Of Portland Cement Grout.

	CERTIFICATION IS	SLIMITED TO THOSE STANDA	ARDS AND GUIDEL	INES PER THIS SHE	ET. CONST	RUCTION IS SUBJECT T
¥		REVISIONS				
<u>/</u> ompacted	Rev. No.	Description	Date	I'I' OALGISTERES	RECOMMENDED FOR APPROVAL	- Druh
8 Aggregate				No.		() DESIGN ENCINE
				STATE OF	APPROVED	EXECUTIVE/DERECTOR OF DEVEL
				MOIANA CAN		Juson Castille
				MAL Elimin	APPROVED	DIRECTOR OF PUBLIC

2.) Pumps "A" And "B" Shall Be Identical, Centrifugal, Submersible, Solids Handling,

1.) Actual Lift Station Dimensions, Control Settings, And Pump Selection To Be As Indicated 17.) Automatic Pump Control Panel Shall Include All Necessary Items And Appurtenances Which Might Normally Be Considered A Part Of A Complete System, Including But Not Limited To: Condensate Heater; Push To Test Button (External); Push To Silence Button (External); Alternator Selector Switch For Manual Designation Of Lead Pump; Time Delay Relay For Lag Pump Start; And Pump Run Time Hour Meters. System Shall Be Supplied By One Manufacturer, Shall Be Factory Assembled, Wired, Tested, And Shall Be Per Complete Electrical Drawings And Instructions. Major Components And Sub-Assemblies Shall Be Identified By Their Function With Laminated, Engraved, Bakelite Nameplates. System Shall Be Built In A Minimum 60"x36"x12" NEMA 4X S.S. Enclosure Suited For The Specified Horsepower And Voltage Of The Pumps. The Outer Door Of The Panel Shall Be A Hinged Dead Front With Provisions For Padlocking. Inside Shall Be A Separate Hinged Panel To Protect All Electrical Components, H-O-A Switches, Run Lights, Circuit Breakers, Etc., Mounted Such That Only The Faces Protrude Through Said Panel With No Wiring Fixed To Said Panel. The Manufacturer Shall Warrant The Control Center For One Year After Installation Covering 100% Parts And Labor.

> Provide The Services Of A Factory Trained, Qualified Representative To Inspect, Adjust, Place The System In Trouble Free Operation, And Instruct Operating Personnel In The Proper Operation And Care Of The System.

All Major Components Of Control Center Shall Be American–Made And Available From Local Sources. Pump Manufacturer Shall Accept The Control Center In Writing To Ensure Unit Responsibility And Warranty.

Provide A Manual Transfer Type Disconnect Switch Housed In A Separate NEMA 4X S.S. Enclosure With External Operation Handle Capable Of Being Locked In The "ON" Normal Position Or The "ON" Secondary Position With A Middle "OFF" Position.

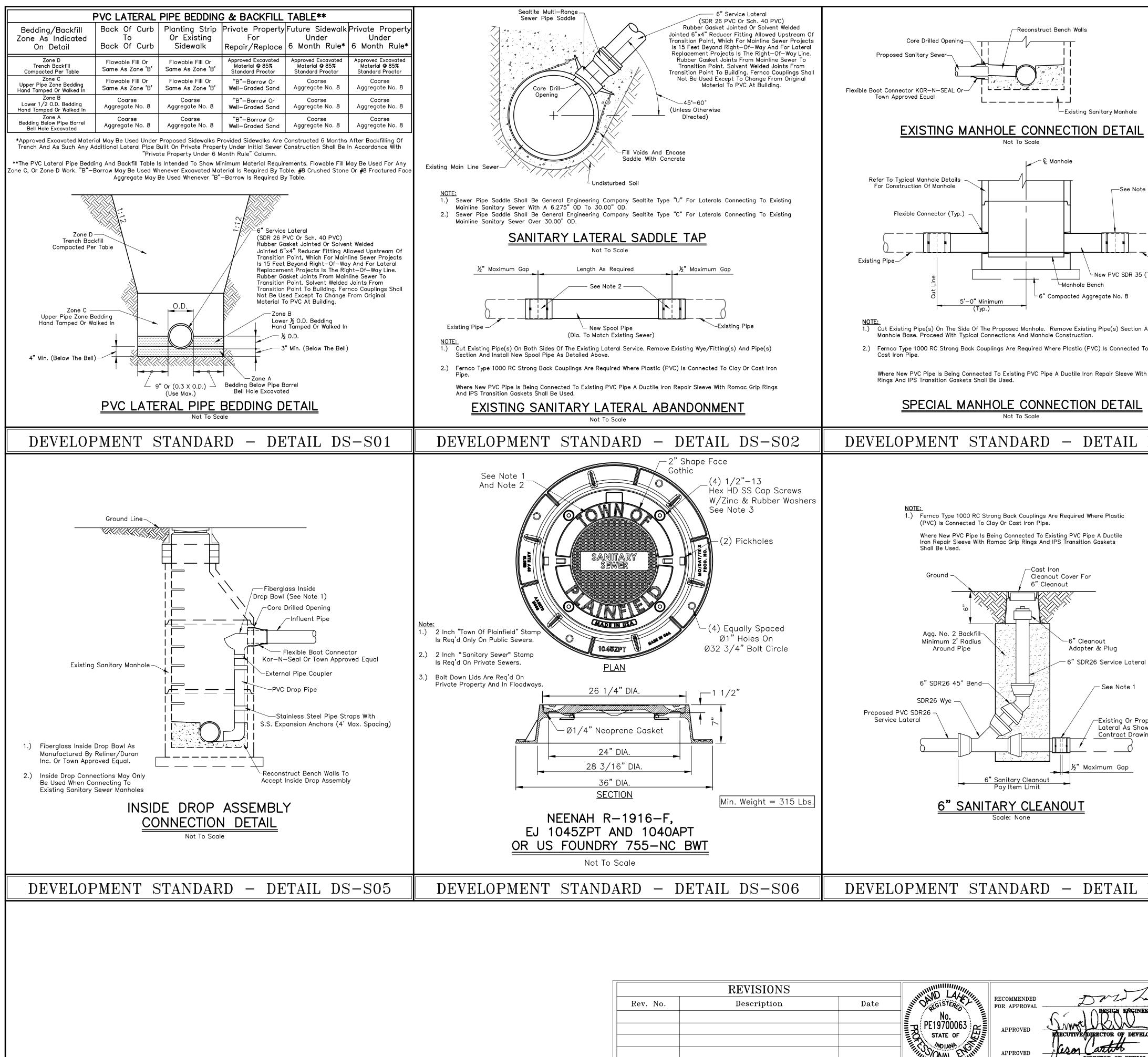
A Lightning Arrestor Shall Be Provided At The Phase Relay Block And Connected To Each Line Of The Incoming Side Of The Power Input Terminals. A Single Main Fusible/Breaker Disconnect Switch Of Adequate Size To Provide Power For Control, Operation, And Appurtenant Components Shall Be Provided. Provide A Circuit Breaker And Magnetic Starter With Each Leg Manual Reset Overload Protected For Each Pump. Starters Shall Have Auxiliary Contacts On 30 Applications To Operate Both Pumps Simultaneously. Provide A Phase Monitor With Phase Fail Relay. Provide A Circuit Breaker And Transformer To Power The Control Panel With 10, 115 Volt Service For All Control Functions Including OMNISITE Data Acquisition System, Radio and Flowmeter. Provide A Green "Run" Light, And H–O–A Switch To Enable Field Connections.

Materials And Installation Of The Required Equipment Grounding Shall Be In Accordance With NEC Section 250-83(c). All Wiring Shall Have Not Less Than 600 Volt Insulation. Wiring And Buss Shall Be In Accordance With NEC, State, Local, And NEMA Standards. All Wiring Shall Be Color Coded. Minimum 4 Inch Diameter, Schedule 40 Conduit Shall Be Provided From Wet Well To Control Panel Enabling Pump Power And Sensor Cables, And Float Switch Cables To Be Easily Pulled. Seal Conduit At Control Panel To Prevent Sewer Gases From Entering. All Conduits, Fittings, Or Connections Shall Enter From The Bottom Of Enclosures.

Sump Level Rise To Lead Pump Run Float Causes Lead Pump To Operate. Lead Pump Operating And Sump Level Falling To Pumps Off Float Causes Lead Pump To Shut Off. Lead Pump Operating And Sump Level Rising To Lag Pump Run Float Causes Lag Pump To Operate. Lag Pump Operating And Sump Level Falling To Pumps Off Float Causes Both Pumps To Shut Off. Sump Level Rise To High Level Alarm Causes High Level Alarm To Operate. Sump Level Fall To Low Level Alarm Causes Low Level Alarm To Operate. An Alternating Relay Shall Be Provided To Cause Pumps To Alternate Whenever Pumps Off Float Is De-Energized. If One Pump Fails For Any Reason, The Remaining Pump Shall Operate Upon Sump Level Rise To Laa Pump Run Float. An Hour Meter Shall Be Provided For Each Pump To Record The Elapsed Operating Time Of Each Pump.

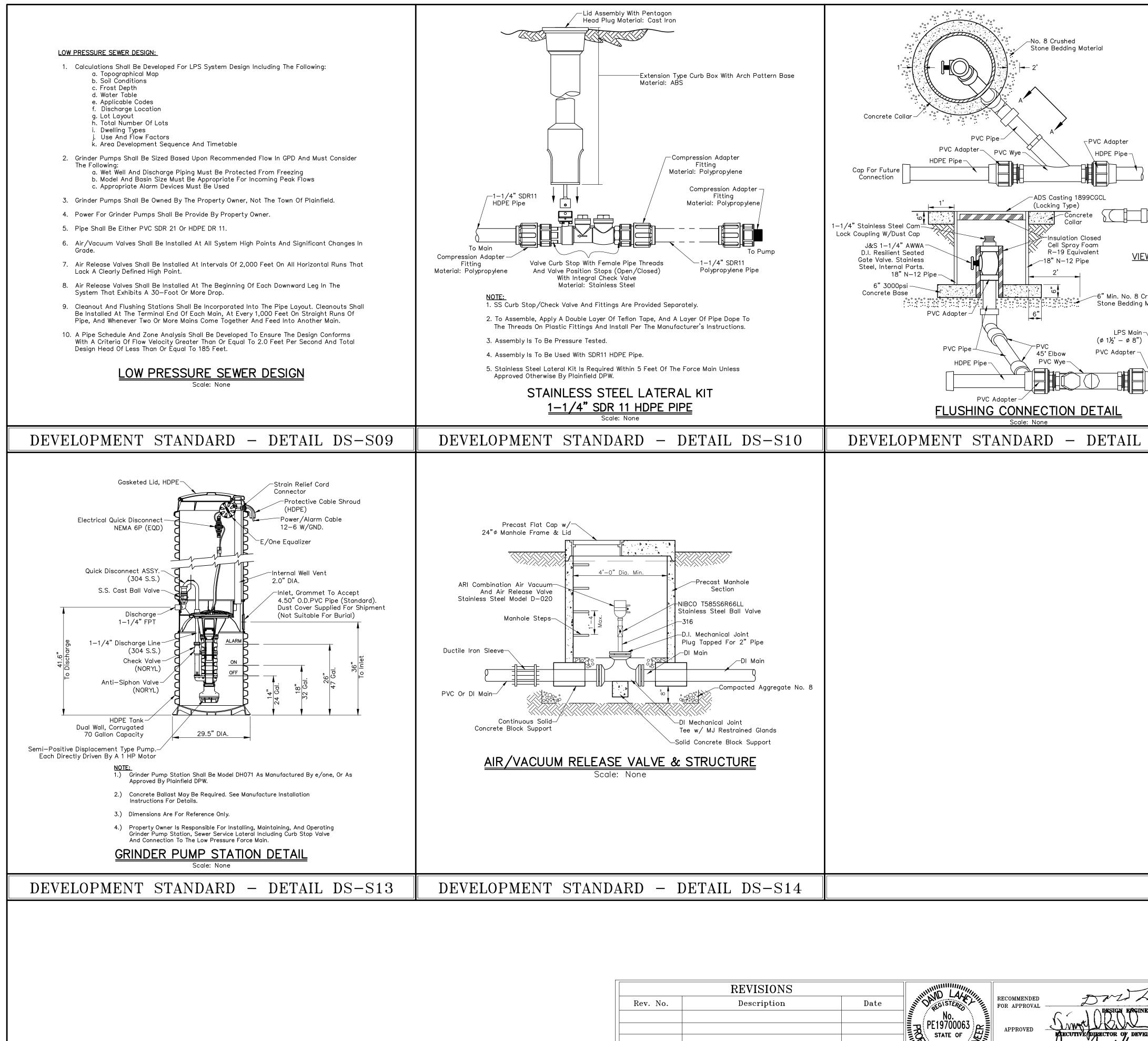
- 18.) Four Manuals Shall Be Presented To The Owner Which Shall Include The Following Minimum Information: 1) Operation Instructions; 2) Maintenance Instructions; 3) Recommended Spare Parts List; 4) Lubrication Schedule; 5) Structural Diagrams; 6) As-Built Wiring Diagrams; And 7) Bill Of Materials.
- 19.) Generator Receptacles To Be Crouse-Hinds Arktite AR1042 100amp Receptacle Or Crouse-Hinds Arktite AR2041 200amp Receptacle With Factory Sealed Switch For Receipt Of The Town Of Plainfield's Portable Generator Set.
- 20.) Provide OMNISITE XR 50 Data Acquisition System For Duplex Pump Stations And OMNISITE Crystal Ball Data Acquisition System For Triplex Pump Stations That Incorporates; 1 Spare Input/Output, 1 Input For Flowmeter, 5 Outputs To Control Being Lead Remote On, Lead Remote Off, Lag Remote On, Lag Remote Off, Remote Alarm Acknowledge, 10 Inputs From Control Being Hatch(es) Open Alarm, Panel(s) Open Alarm, Pump "A" On, Pump "B" On, Pump "A" Fail, Pump "B" Fail, Phase Fail Alarm, Power Fail Alarm, High Water Alarm, And Pump(s) Seal Failure. Remote Lead Pump Override And Remote Lag Pump Override.
- 21.) Eccentric Reducer To Be Installed As Required For Force Main Size. Consult Plainfield DPW If Force Main Piping Is Greater Than 6 Inch Diameter.
- 12.) Horizontal Projections From Precast Integral Base And Riser May Be Required To Enable 22.) ¼" Stainless Steel Deflector Plate Required On All Influent Pipes. As Supplied by Mooresville Welding or DPW Approved Equal.
 - 23.) Air/Vacuum Release Valve Shall Be An ARI D-025P Combination Air Valve For Wastewater And Shall Be Sized By The Design Engineer According To The Volume Of Main And Maximum Force Main Operating Pressure. The Pipe Nipples And Gate Valve For The Air/Vacuum Release Valve Shall Be Stainless Steel.

TO CONSTRUC	TION DRAWINGS	S, SHOP DRAWINGS, AND DESIGN ENGINEER'S CERTIFICATION	SHEET.
Takey	0 /0 /2025	TOWN OF PLAINFIELD	SHEET
RER	$\frac{DATE}{\frac{O /O /2O25}{DATE}}$	SANITARY SEWER	17 OF
IC WORKS	<u>0 /0 /2025</u> DATE	LIFT STATION STANDARDS & GUIDELINES	29



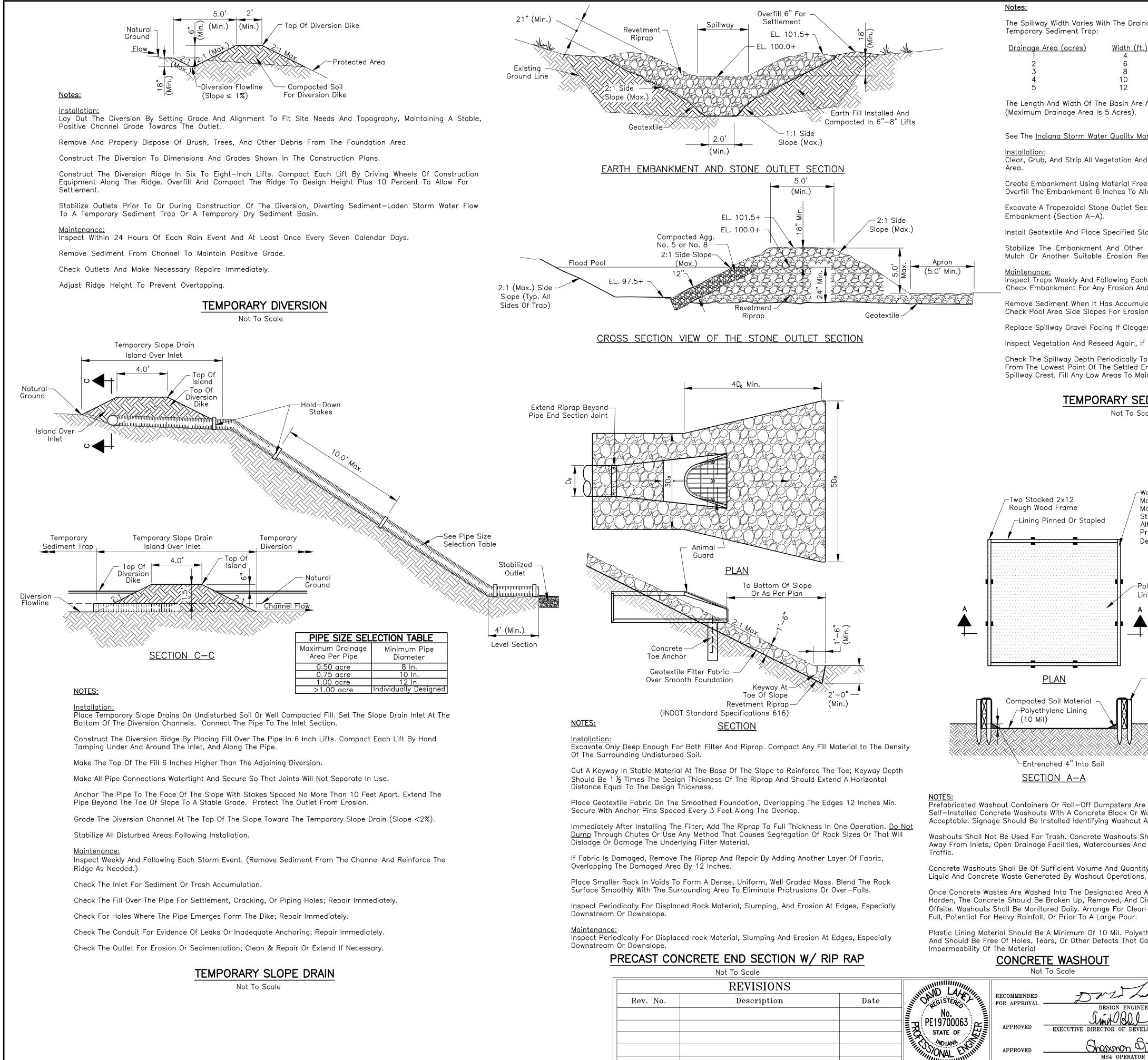
_						
		REVISIONS				
	Rev. No.	Description	Date	IN DALGISTER	RECOMMENDED FOR APPROVAL	
				No.		
					APPROVED	EXECUTIVE DERECTOR OF DEVELO
				MOIANA CI		Cisan attit
				- MONAL ELIMIN	APPROVED	DIRECTOR OF PUBLIC

e 2 Existing Pipe (Typ.) And Install to Clay Or n Romac Grip	<section-header><section-header><section-header><section-header><section-header><section-header><list-item><list-item><list-item><list-item><list-item><text></text></list-item></list-item></list-item></list-item></list-item></section-header></section-header></section-header></section-header></section-header></section-header>
DS-S03	DEVELOPMENT STANDARD - DETAIL DS-S04
posed Service wn On The ngs	<section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header></section-header>
DS-S07	DEVELOPMENT STANDARD - DETAIL DS-S08
hey 01/	TOWN OF PLAINFIELD SHEET
OPMENT SERVICES	DATE18DATESANITARY SEWER (S)OFDATEDEVELOPMENT STANDARDS29

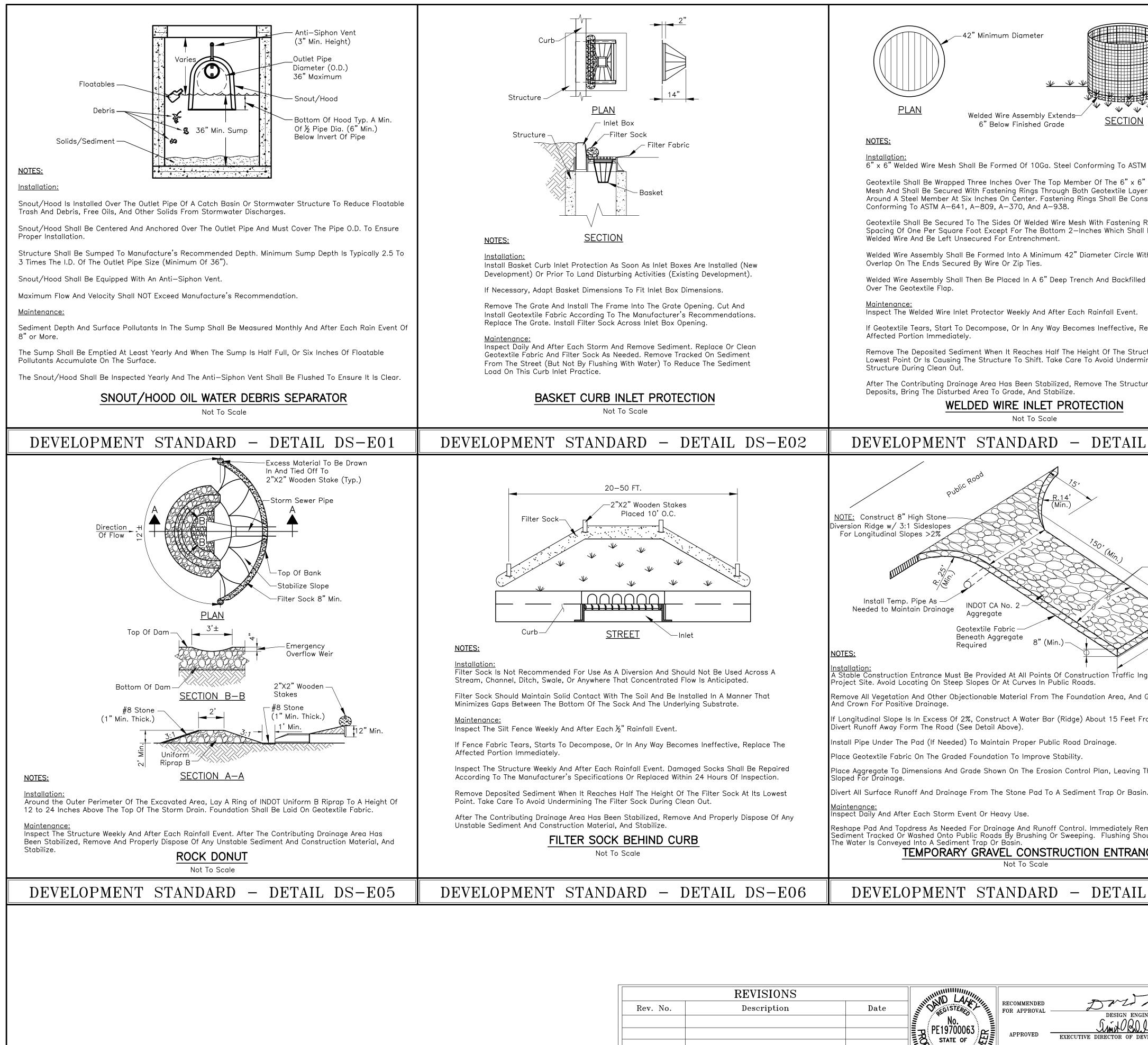


	REVISIONS				
Rev. No.	Description	Date	INTO ALGISTERES	RECOMMENDED FOR APPROVAL	DAL La
			No.		C C L DESIGN ENCINEE
			STATE OF	APPROVED	EXECUTIVE DERECTOR OF DEVELO
			MOIANA CAN		Con att
			MONAL Elimin	APPROVED	DIRECTOR OF PUBLIC

W "A" rushed Material To Manhole HDPE Pipe	<image/>	Link
DS-S11	DEVELOPMENT STANDARD – DETAIL D	S-S12
ER U	Image: Date TOWN OF PLAINFIELD	SHEET 19
LOPMENT SERVICES	ION / 2025 DATESANITARY SEWER (S) DEVELOPMENT STANDARDSION / 2025 DATE	0F 29

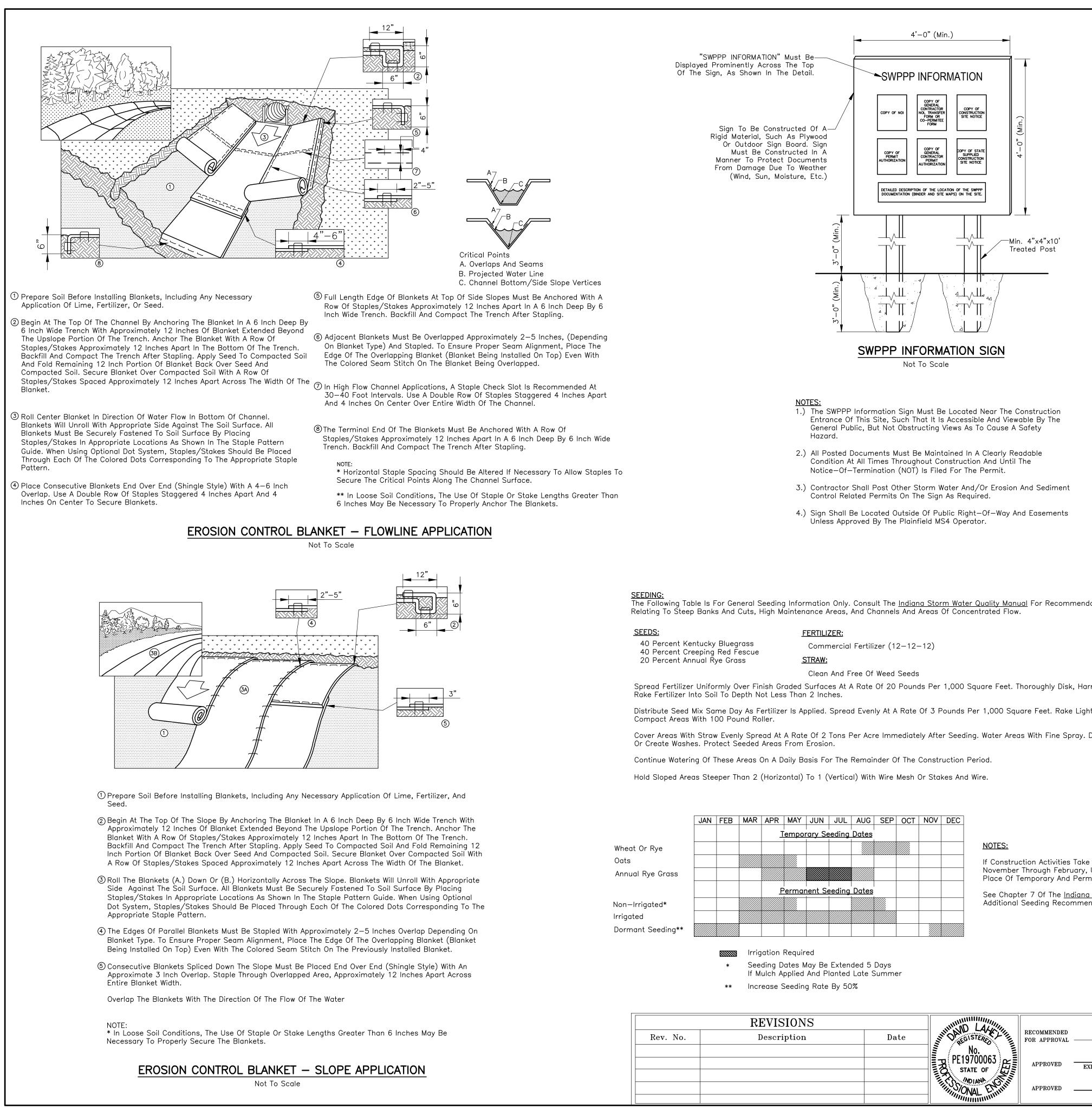


<u>Notes:</u>	Compacted Agg.	
The Spillway Width Varies With The Drainage Area Contributing To The Temporary Sediment Trap:	No. 5 or No. 8	
Drainage Area (acres) Width (ft.) 1 4	Geotextile <u>SECTION</u>	
4 10 5 12	Revetment Riprap	
The Length And Width Of The Basin Are As Shown On The Erosion Control P (Maximum Drainage Area Is 5 Acres).	Geotextile	
See The Indiana Storm Water Quality Manual For Additional Information.	NOTES:	
<u>Installation:</u> Clear, Grub, And Strip All Vegetation And Root Mat From The Embankment Area.	<u>Installation:</u> Excavate A Cutoff Trench Into The Swale Banks And Extend It A Minimum Of The Top Of Bank. Place The Rock In The Cutoff Trench And Channel to The Li Shown.	
Create Embankment Using Material Free Of Roots, Rocks, Brush, And Debri Overfill The Embankment 6 Inches To Allow For Settling.	Extend The Rock At Least 18 Inches Beyond The Top Of Bank To Keep Overflo	ow Water From
Excavate A Trapezoidal Stone Outlet Section From The Compacted Embankment (Section A—A).	Undercutting The Dam As It Re—Enters The Channel. Space Dams So That The Upstream Dam Toe Elevation And The Overflow Weir	⁻ Of The Downstream
Install Geotextile And Place Specified Stone To The Lines And Grades Showr	Dam Top Elevation Are The Same. n. (A 1% Swale Slope Would Equal 200' Spacing)	
Stabilize The Embankment And Other Disturbed Areas With Seed And Mulch Or Another Suitable Erosion Resistant Cover	Stabilize The Channel Above The Uppermost Dam. Erosion Resistant Lining SI 6" Below Lowest Dam.	nall Extend At Least
<u>Maintenance:</u> Inspect Traps Weekly And Following Each Storm Event And Immediately Rep Check Embankment For Any Erosion And Piping Holes And Repair.	Immediately. If Significant Erosion Occurs Between Dams, Install A Riprap Lin	
Remove Sediment When It Has Accumulated To One Half The Design Depth. Check Pool Area Side Slopes For Erosion And Repair.	Remove Sediment Accumulated Behind Each Dam As Needed To Maintain Cha	
Replace Spillway Gravel Facing If Clogged.	Allow Drainage Through The Dam, And To Prevent Large Flows From Displacir Add Aggregate To The Dams As Needed To Maintain Design Height And Cross	ng Sediment.
Inspect Vegetation And Reseed Again, If Necessary.	When The Dams Are No Longer Needed, Remove The Aggregate And Stabilize	
Check The Spillway Depth Periodically To Ensure A Minimum 18 Inch Depth From The Lowest Point Of The Settled Embankment To Highest Point Of The Spillway Crest. Fill Any Low Areas To Maintain The Design Elevation.	Erosion Resistant Lining, If Necessary. e	-
	ROCK CHECK DAM Not To Scale	
TEMPORARY SEDIMENT TRAP Not To Scale		
Two Stacked 2x12 Rough Wood Frame -Wood Stake (Alternative Materials Or Products May Be Used To Provide Structural Containment, Alternative Materials Or Products Will Require Design Modification) Polyethylene Lining (10 Mil) PLAN	Silt Fence Metal, Synthetic, Or Wood Post SILT FENCE JOINT DETAIL Not To Scale 5.0' Max. Metal, Synthetic, or Wood	d Post
Compacted Soil Material - Around Entire Perimeter With Two Stakes 8" Embedm		(Min.)
(10 Mil) NOTES:	UNSUPPORTED SILT FENCE Metal, Synt	Ш
~ ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	Or Wood Pe s Not Recommended For Use As A Diversion And Should Not Be Used	
Entrenched 4" Into Soil Anticipated.	Fabric -	
Slope And A Storage Are shout Containers Or Roll—Off Dumpsters Are Preferred. Contact Bet	Location Of The Fence So That It Is Parallel To The Contour Of The At Least 10 Feet Beyond The Toe Of The Slope To Provide A Sediment a. Turn The Ends Of The Fence Up Slope Such That The Point Of Sween The Ground And The Bottom Of The Fence End Terminates At A	4"
age Should Be Installed Identifying Washout Areas. Along The E	ation Than The Top Of The Fence At Its Lowest Point	(Min.)
	ce Fence According To Manufacturer's Recommendations.	18" (M
ts Shall Be Of Sufficient Volume And Quantity To Contain All	Silt Fence Weekly And After Each Storm Event.	
astes Are Washed Into The Designated Area And Allowed To		NCH DETAIL
Shall Be Monitored Daily. Arrange For Clean-out When 1/2 Lowest Poin	It Or Is Causing The Fabric To Bulge. Take Care To Avoid Undermining During Clean Out.	
ee Of Holes, Tears, Or Other Defects That Compromise The Sediment De	ontributing Drainage Area Has Been Stabilized, Remove The Fence And eposits, Bring The Disturbed Area To Grade, And Stabilize.	
The Material <u>CONCRETE WASHOUT</u> Not To Scale	SILT FENCE (SEDIMENT FENCE) Not To Scale	
	TOWN OF PLAINFIFID	SHEET
FOR APPROVAL $DESIGN ENGINEER DATE DATE$		20
APPROVED EXECUTIVE DIRECTOR OF DEVELOPMENT SERVICES $\frac{O/O/2025}{DATE}$	EROSION CONTROL MEASURES	∼° OF
APPROVED Showshop OV/01/2025 MS4 OPERATOR DATE		29



PLAN Filter Sock Filter Fabric Basket	Welded Wire Assembly Extends Below Finished Grade SECTION NOTES: Britallation: 6° x 6° Welded Wire Mesh Shall Be Formed Of 10Ga. Steel Conforming To ASTM A-185. Geotextile Shall Be Wrapped Three Inches Over The Top Member Of The 6° x 6° Welded Wire Assembly Rings Through Both Geotextile Layers And Close Around A Steel Member At Six Inches On Center. Fastening Rings Shall Be Constructed Of Wire Conforming To ASTM A-641, A-809, A-370, And A-938. Geotextile Shall Be Secured To The Sides Of Welded Wire Mesh With Fastening Rings At A	2"X2" Wooden Stakes Placed 10' O.C. Blown/Placed Filter Media Disturbed Area 12" Min Existing Contours Compost 12" Min Disturbed Area Order Compost Compost Placed 10' O.C. Existing Contours Compost Filter Sock NOTES: Installation: Filter Sock Should Maintain Solid Contact With The Soil And Be Installed In A Manner That Minimizes Gaps Between The Bottom Of The Sock And The Underlying Substrate.
SECTION nlet Protection As Soon As Inlet Boxes Are Installed (New or To Land Disturbing Activities (Existing Development). Basket Dimensions To Fit Inlet Box Dimensions.	Spacing Of One Per Square Foot Except For The Bottom 2-Inches Which Shall Extend Past The Welded Wire And Be Left Unsecured For Entrenchment. Welded Wire Assembly Shall Be Formed Into A Minimum 42" Diameter Circle With a 3" Minimum Overlap On The Ends Secured By Wire Or Zip Ties. Welded Wire Assembly Shall Then Be Placed In A 6" Deep Trench And Backfilled And Compacted Over The Geotextile Flap.	Filter Socks Should Be Installed Parallel To The Contour With Both Ends Of The Sock Extended Upslope At A 45 Degree Angle To The Rest Of The Sock. Socks Placed On Earthen Slopes Should Be Staked In The Center Of The Sock Or Immediately Downslope Of The Sock At The Interval Recommended By The Manufacturer. Socks Installed On Paved Surfaces Shall Have Concrete Blocks Placed Immediately Downslope Of The Sock At An Interval Recommended By The Manufacturer. <u>Maintenance:</u>
Ad Install The Frame Into The Grate Opening. Cut And ric According To The Manufacturer's Recommendations. Install Filter Sock Across Inlet Box Opening. Are Each Storm And Remove Sediment. Replace Or Clean I Filter Sock As Needed. Remove Tracked On Sediment I Filter Sock As Need	Maintenance: Inspect The Welded Wire Inlet Protector Weekly And After Each Rainfall Event. If Geotextile Tears, Start To Decompose, Or In Any Way Becomes Ineffective, Replace The Affected Portion Immediately. Remove The Deposited Sediment When It Reaches Half The Height Of The Structure At Its Lowest Point Or Is Causing The Structure To Shift. Take Care To Avoid Undermining The Structure During Clean Out. After The Contributing Drainage Area Has Been Stabilized, Remove The Structure And Sediment Deposits, Bring The Disturbed Area To Grade, And Stabilize. WELDED WIRE INLET PROTECTION	Traffic Shall Not Be Permitted To Cross Filter Socks. Inspect The Structure Weekly And After Each Rainfall Event. Damaged Socks Shall Be Repaired According To The Manufacturer's Specifications Or Replaced Within 24 Hours Of Inspection. Remove Deposited Sediment When It Reaches Half The Height Of The Filter Sock At Its Lowest Point. Take Care To Avoid Undermining The Filter Sock During Clean Out. After The Contributing Drainage Area Has Been Stabilized, Remove And Properly Dispose Of Any Unstable Sediment And Construction Material, And Stabilize. FILTER SOCK
STANDARD – DETAIL DS-E02	Not To Scale DEVELOPMENT STANDARD - DETAIL DS-E03	Not To Scale DEVELOPMENT STANDARD - DETAIL DS-E04
<image/> 20-50 FT. 10-20 FT. 10-20 FT. 20-20 FT. 20-20 FT. 20-20 FT.	NOTE: Construct 8" High Stone Diversion Ridge w/ 3:1 Sideslopes For Longitudinal Slopes >27 Install Temp. Pipe As Needed to Maintoin Drainage Required NOTE: Construction Entrance Must Be Provided At All Points Of Construction Traffic Ingress And Egress To The Project Site. Avoid Locating On Steep Slopes Or At Curves in Public Roads. Remove All Vegetation And Other Objectionable Material From The Foundation Area, And Grade The Foundation And Crown For Positive Drainage. If Longitudinal Slope Site Drainage. Place Geotextile Fabric besond State Drainage. It Longitudinal Slope In Excess Of 2%, Construct A Water Bar (Ridge) About 15 Feet From The Entrance To Divert Runoff Away Form The Road (See Detail Above). Install Pipe Under The Pad (If Needed) To Maintain Proper Public Road Drainage. Place Geotextile Fabric On The Graded Foundation To Improve Stability. Place Aggregate To Dimensions And Grade Shown On The Erosion Control Plan, Leaving The Surface Smooth And Sloped For Drainage. Divert All Surface Runoff And Drainage From The Stone Pad To A Sediment Trap Or Basin. <u>Materianace:</u> Inspect Daily And After Each Storm Event Or Heavy Use. Reshope Pad And Topdress As Needed For Drainage And Runoff Control. Immediately Remove Mud And Sediment Tracked Or Washed Onto Public Roads By Brushing Or Sweeping. Flushing Should Only Be Used If The Water Is Conveyed Into A Sediment Trap Or Basin. <u>IEMPORARY GRAVEL CONSTRUCTION ENTRANCE Not To Scale</u>	With a start of the start
STANDARD – DETAIL DS-E06	DEVELOPMENT STANDARD – DETAIL DS-E07	DEVELOPMENT STANDARD - DETAIL DS-E08
REVISIONS Rev. No. Description	No. PE19700063 STATE OF No. APPROVED APPROVED EXECUTIVE DIRECTOR OF DEVELOPMENT SERVICES	Image: Note of the second stateTOWN OF PLAINFIELDSHEETImage: DateImage: Date21Image: DateImage: Date0FImage: DateDEVELOPMENT STANDARDS29

•



The Following Table Is For General Seeding Information Only. Consult The <u>Indiana Storm Water Quality Manual</u> For Recommendations Relating To Steep Banks And Cuts, High Maintenance Areas, And Channels And Areas Of Concentrated Flow.

Spread Fertilizer Uniformly Over Finish Graded Surfaces At A Rate Of 20 Pounds Per 1,000 Square Feet. Thoroughly Disk, Harrow, Or

Distribute Seed Mix Same Day As Fertilizer Is Applied. Spread Evenly At A Rate Of 3 Pounds Per 1,000 Square Feet. Rake Lightly And

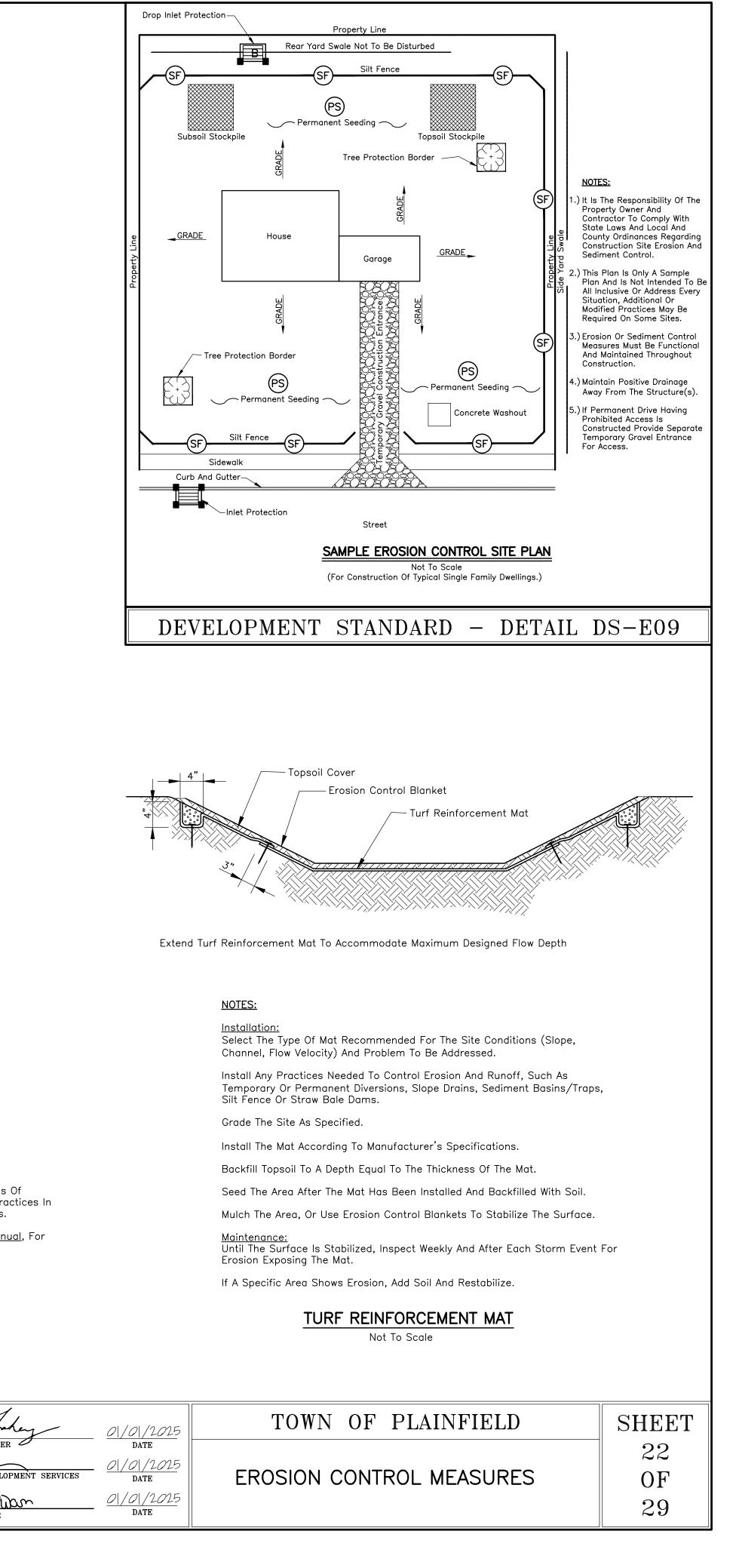
Cover Areas With Straw Evenly Spread At A Rate Of 2 Tons Per Acre Immediately After Seeding. Water Areas With Fine Spray. Do Not Flood

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
					empoi							
eat Or Rye												
ts												
nual Rye Grass												
				E	 Permar	nent Se	eeding	Dates				
n-Irrigated*												
gated												
rmant Seeding**												

If Construction Activities Take Place During The Months Of November Through February, Use Dormant Seeding Practices In Place Of Temporary And Permanent Seeding Practices.

See Chapter 7 Of The Indiana Storm Water Quality Manual, For Additional Seeding Recommendations.

	REVISIONS				
Rev. No.	Description	Date	REGISTERED LI	RECOMMENDED FOR APPROVAL	DESIGN ENGINI
			No. PE19700063	APPROVED	EXECUTIVE DIRECTOR OF DEVE
			- MOIANA CITUTI	APPROVED	Shassion Shassion Shassion



EROSION CONTROL NOTES

GENERAL:

Take Measures To Control Erosion And Sedimentation By Storm/Wind Events To Assure That Sediment Is Not Transported From The Site By Storm Events. Practices Such As Silt Traps Or Filters Shall Be Installed Prior To Land Disturbing Activities. New Drainage Swales Shall Be Seeded And/Or Sodded, Or Other Protective Practices Applied, Immediately Following Construction. All Practices Shall Be Maintained To Remove Sediment From Runoff Leaving The Site As Long As Unstabilized Soil Conditions Exist.

After Land Disturbing Activities Cease And The Soil Is Stabilized, Temporary Erosion Control Measures May Be Eliminated If Their Purpose Has Been Fulfilled. Any Disturbed Soil Resulting From Removal Of Such Practices Shall Be Stabilized By Approved Methods.

Dispose Properly All Waste And Unused Building Materials Including, But Not Limited To, Garbage, Debris, Cleaning Wastes, Water, Toxic Materials, And Hazardous Substances. Do Not Allow Substances To Be Carried By Runoff Into A Receiving Channel Or Storm Sewer System.

Clean Public Or Private Roadways Daily And After Major Storms Using Acceptable Methods Such as Sweeping To Remove Any Accumulated Sediment. The Developer's Contractors Are Responsible For Supervision Of The Construction Activity Within The Development And Shall Take All Necessary Actions To Remove Sediment From The Streets.

For Construction Sequence, Maintenance, And Other Soil Erosion Requirements, See Specifications For Site Clearing, Slope Protection, Erosion Control, Landscaping, And Seeding.

Erosion And Sediment Control Practices Must Adhere To, Or Exceed Those Shown On The Erosion Control Plan, And Shall Be In Accordance With The Construction Stormwater General Permit, And Indiana Storm Water Quality Manual, Indiana Department Of Environmental Management.

SURFACE STABILIZATION:

Cut Slopes Which Are To Be Topsoiled Should Be Scarified To A Minimum Depth Of 4 Inches Prior To Placement Of Topsoil. Install Erosion Control Blankets On All Slopes Of 3 (Horizontal) To 1 (Vertical).

Stabilize All Disturbed Ground Within Fifteen Days Of Being Left Inactive By Seeding, Sodding, Mulching, Or By Other Equivalent Erosion Control Practices. Immediate Stabilization Shall Be Planned To Aid In Surface Runoff And Stabilization Shall Follow A Linear Progression As The Site Is Developed.

Un-Vegetated Areas That Are Left Idle Or Scheduled To Be Left Inactive Must Be Temporarily Or Permanently Stabilized With Measures Appropriate For The Season To Minimize Erosion Potential. To Meet This Requirement, The Following Apply:

- 1. Stabilization Must Be Initiated By The End Of The Seventh Day The Area Is Left Idle. The Stabilization Activity Must Be Completed With Fourteen Days After Initiation. Initiation Of Stabilization Includes, But Is Not Limited To, The Seeding And/Or Planting Of The Exposed Area And Applying Mulch Or Other Temporary Surface Stabilization Methods Where Appropriate. Areas That Are Not Accessible Due To An Unexpected And Disruptive Event That Prevents Construction Activities Are Not Considered Idle.
- 2. Areas That Have Been Compacted May Be Excluded From The Stabilization Requirement When The Areas Are Intended To Be Impervious Surfaces Associated With The Final Land Use, Provided Run-off From The Area Is Directed To Appropriate Sediment Control Measures.

See The Landscape Plan For Permanent Ground Cover Requirements Adjacent To The Building And Parking Areas.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT PAD:

Construct The Temporary Gravel Drive Using 6 Inches INDOT No. 2 Stone Over A Stable Foundation. Geotextile Fabric Shall Be Used Under All Drives Including Individual Lots. Grade For Positive Drainage.

Inspect The Entrance Pad Area Weekly And After Storm Events Or Heavy Use. Reshape The Pad As Needed For Drainage And Runoff Control. Top Dress Pad With Clean Stone.

SODDING:

No Not Install Sod On Hot, Dry Soil, Frozen Soil, Compacted Clay, Loose Sand Or Gravel, Or Pesticide Treated Soil. Ideal Sodding Time Is May 1-June 1, Or September 1-October 20, Although It Can Be Installed As Early As March 15. If Available And Temperatures Are Above 32° F. Or June 1-September 1 If Irrigated.

Install Sod After Other Erosion Control Practices Have Been Completed. Break Up Compacted Soils Sufficiently To Create A Favorable Rooting Depth Of 6–8 Inches, Using A Chisel Plow, Disk, Harrow, Or Rake.

Soil Compaction Is To Be Minimized, Especially In Areas Where Permanent Vegetation Will Be Established. Topsoil Must Be Preserved, Unless Infeasible.

Apply Topsoil If The Site Is Otherwise Unsuitable For Establishing Vegetation. Shape, Smooth, And Firm The Soil Surface.

Have The Soil In The Sod Bed Tested To Determine Its pH And Nutrient Level. If The pH Is Too Acidic For The Grass Sod To Be Installed, Apply Lime According To Test Results Or At The Rate Recommended By The Sod Supplier.

Fertilize As Recommended By The Soil Test. If Testing Was Not Done, Consider Applying 400–600 Lbs./Acre Of 12-12-12 Analysis Fertilizer, Or Equivalent Fertilizer, As Recommended By The Soil Test. Work The Fertilizer Into The Soil To 2-4 Inches Deep.

Apply Fertilizer At An Appropriate Time Of year For The Project Location, Taking Into Consideration Proximity To A Waterbody, And Preferably Timed To Coincide With The Period Of Maximum Vegetative Uptake And Growth.

Avoid Applying Fertilizer Immediately Prior To Precipitation Events That Are Anticipated To Result In Stormwater Run-Off From The Application Area.

TREE CONSERVATION/PROTECTION:

Protect Trees From Construction Equipment By Fencing Off An Area Equivalent To The Tree's Crown With Temporary Construction Safety Fence. If A Fence Cannot Be Erected, Cushion The Rooting Area With 6 Inches Of Wood Chips, Or Wood Or Brick Paths.

Create Traffic Patterns Such As To Keep Soil Compaction To A Minimum. Store Supplies And Equipment Away From Protected Tree Areas. Aerate Soil Where Compaction Has Been Excessive.

When Clearing Areas Adjacent To Protected Trees, Use Equipment Such As A Brush Cutter Or Rotary Ax, Or Cut By Hand. Where Root Areas Must Be Graded, Cut Large Roots Instead Of Tearing Them With Equipment.

Minimize Changes In The Drainage Pattern. Avoid Putting Fill Over The Root System. Prune Low Hanging Limbs That Could Otherwise Be Broken Off By Equipment.

EROSION CONTROL BLANKETS:

Use Machine Produced Mat Of Straw Fiber Matrix Or Curled Wood Excelsior Of 80 Percent, 6 Inch Or Longer Fiber Length.

Evenly Distribute Fibers Over Entire Area Of Blanket To Provide Consistent Thickness.

Provide Blanket With Top Side Covered With Biodegradable Extruded Plastic Mesh.

Treat Blankets To Impart Smolder Resistance Without Use Of Chemical Additives.

Accepted Substitute.

EROSION CONTROL BLANKET STAPLES: Use Minimum 0.091 Inch Diameter Steel Wire "U" Shape With Legs 6 Inches In Length With 1 Inch Crown. CONCRETE AND CEMENTITIOUS WASHWATER:

Cementitious Washwater Results From The Cleaning Of Tools And Equipment Used In The Delivery, Mixing, Handling, And Working Of Cementitious Materials Often Associated With Concrete, Mortar, Plaster, Stucco, Grout And Flowable Fill.

Concrete Washouts Shall Be Of Sufficient Volume And Quantity To Contain All Liquid And Concrete Waste Generated By Washout Operations. The System Shall Be Designed To Eliminate Run-off And Minimize Precipitation From Entering The Washwater Containment System. Covering Of Containment When Not In Use Is Recommended.

Locate Washwater Containments At Least 50 Feet From Any Creeks, Wetlands, Ditches, Karst Features, Or Storm Drains/manmade Conveyance Systems. Locate When Practical In Relatively Flat Areas With Established Vegetative Cover In Areas That Provide Easy Access For Equipment That Will Require The Use Of Washwater Containment Facilities.

Prefabricated Washout Containers Or Roll-off Dumpsters Are Preferred. Structure Must Be Watertight And Have The Strength To Resist Failure Or Collapse For The Duration Of Use. Below Grade Systems Are To Be Used Only When There Is No Other Feasible Way To Implement Containment. Waterproof Lining Is Required To Have A Minimum Thickness Of 10 Mil, Be A Single Continuous Sheet Sufficient To Adequately Line The Entire Containment And Be Free Of Defects, Holes, Rips, Or Tears. Signage Is Required To Identify Washout Areas.

Washouts Shall Not Be Used For Trash Or Construction Debris. Containers Should Not Be Filled Beyond 75 Percent Of Containment Capacity. When A Containment Is At Capacity And Can No Longer Accept Washwater, Identify With "closed" Sign. No Spillage Of Washwater Shall Occur From The Transport Of The Unit. Closure Of Washwater Shall Be Accomplished When All Fluids Are Removed Or Evaporated. The Remaining Solid Cementitious Material May Be Used As Clean Fill.

FLOATING OUTLET "SKIMMER": Sediment Basins Where Feasible, Must Withdraw Water From The Surface Of The Water Column Unless Equivalent Sediment Reduction Can Be Achieved By Use Of Alternative Measures. Alternative Measures Include But Are Not Limited To Increasing The Basin Length To Width Ratio To 4:1 Or Greater, Implementation Of Porous Baffles, Use Of Flocculants/polymers, And Or Phasing Of Project Land Disturbance And Rapid Stabilization.

Floating Outlets Can Be Implemented With The Permanent Basin Outlet Structure. The Discharge Capacity:

Dewatering Zone Volume/Dewatering Time = Required Flow Rate Of Skimmer. Locate Floating Devices Where They Can Be Easily Accessed To Facilitate Maintenance Activities And To Be Appropriately Tethéred Or Restrained To Prevent Flexible Boom Damage. If Ice Formation Is A Concern, Install Boom And Inlet At An Incline To Maintain Positive Drainage Through The Device. Install Following The Manufacturer's Recommendation.

The Floating Inlet Is Designed To Drain The Dewatering Zone In No Less Than 48 Hours And No Longer Than 72 Hours For The Minimum Required Storage Volume. Inspect Weekly And Prior To Anticipated Rain Events. The Floating Outlet Practice Shall Only Be Removed When The Contributing Drainage Area Has Been Properly Stabilized And No Longer Contributing Sediment-laden Run-off Or When Freezing Conditions Are Anticipated.

NATURAL BUFFERS:

Preserve Existing Natural Buffers That Are Adjacent To Waters Of The State To Promote Infiltration And Provide Protection Of The Water Resource. Natural Buffers Must Be Preserved, Including The Entire Buffer Bordering And/or Surrounding The Water Resource.

<u>Buffers:</u>

Sustainability.

Run-off Directed To The Natural Buffer Must Be Treated With Appropriate Erosion And Sediment Control Measures Prior To Discharging To The Buffer And Managed To Prevent Erosion From Occurring Within The Buffer Area.

Stormwater Conveyances And Outfalls Are Allowed To Impact The Buffer And Must Be Designed To Minimize The Width Of Disturbance And Impact To The Buffer.

WASTE CONTAINERS (TRASH RECEPTACLES): Must Be Managed To Reduce The Discharge Of Pollutants And Blowing Of Debris. If Stormwater Has The Potential To Come Into Contact With Waste, A Cover Is Required. Waste That Is Not Disposed Of In A Trash Receptacle Must Be Protected From Exposure To The Weather And/or Removed At The End Of The Day From The Site And Disposed Of Properly.

ANIONIC POLYMERS (FLOCCULANTS): Are Authorized For Sediment Control Provided Their Use Is In Conformance With Current State Of Indiana Standards And Specifications, And The Use Is Identified In The Stormwater Pollution Prevention Plan (SWP3). The Manufacture Representative Or Properly Trained Individual Is Required To Oversee The Use Of All Polymers. Prior To The Use Of The Polymer, An Email Notification Must Be Made To The Town Of Plainfield.

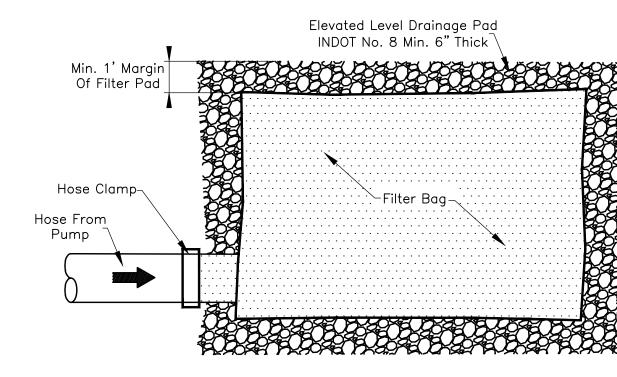
EROSION CONTROL NOTES CONT'D

Erosion Control Blankets Shall Be Selected Based Upon Application And Shear Strength.

Provide "Curlex Blankets" By American Excelsior Company, Or "S150" By North American Green, Or

1. 50 Feet Or More In Width Must Be Preserved To A Minimum Of 50 Feet Less Than 50 Feet In Width Must Be Preserved In Their Entirety.

3. May Be Enhanced With Vegetation That Is Native And Promotes Ecological Improvements And



Dewatering Bags Are Used To Minimize The Discharge Of Sediment For Pump Induced Dewatering Activities.

Bag Size Is Dependent On The Pumping Rate And Soil Conditions.

Clamp Pump Hose With Steel Hose Clamp Over The Rigid Hose Connector Area To A Tight Secure Connection To Filter Bag.

Locate Filter Bags Where Outflows Can Easily Drain. Preferred Locations Are Areas Of Undisturbed Densely Vegetated Areas. Locate For Ease Of Access, Monitoring, Maintenance, And Removal.

MATERIALS:

Nonwoven Polyethylene Geotextile Or Geotextile Bag.Steel Hose Clamps Or Equivalent To Tightly Attach Pump Hose To The Filter Bag.Elevated Drainage Pad (No. 8 Stone, Wood Mulch, Straw Bales, Wood Pallet).Secondary Containment Berm (Optional)

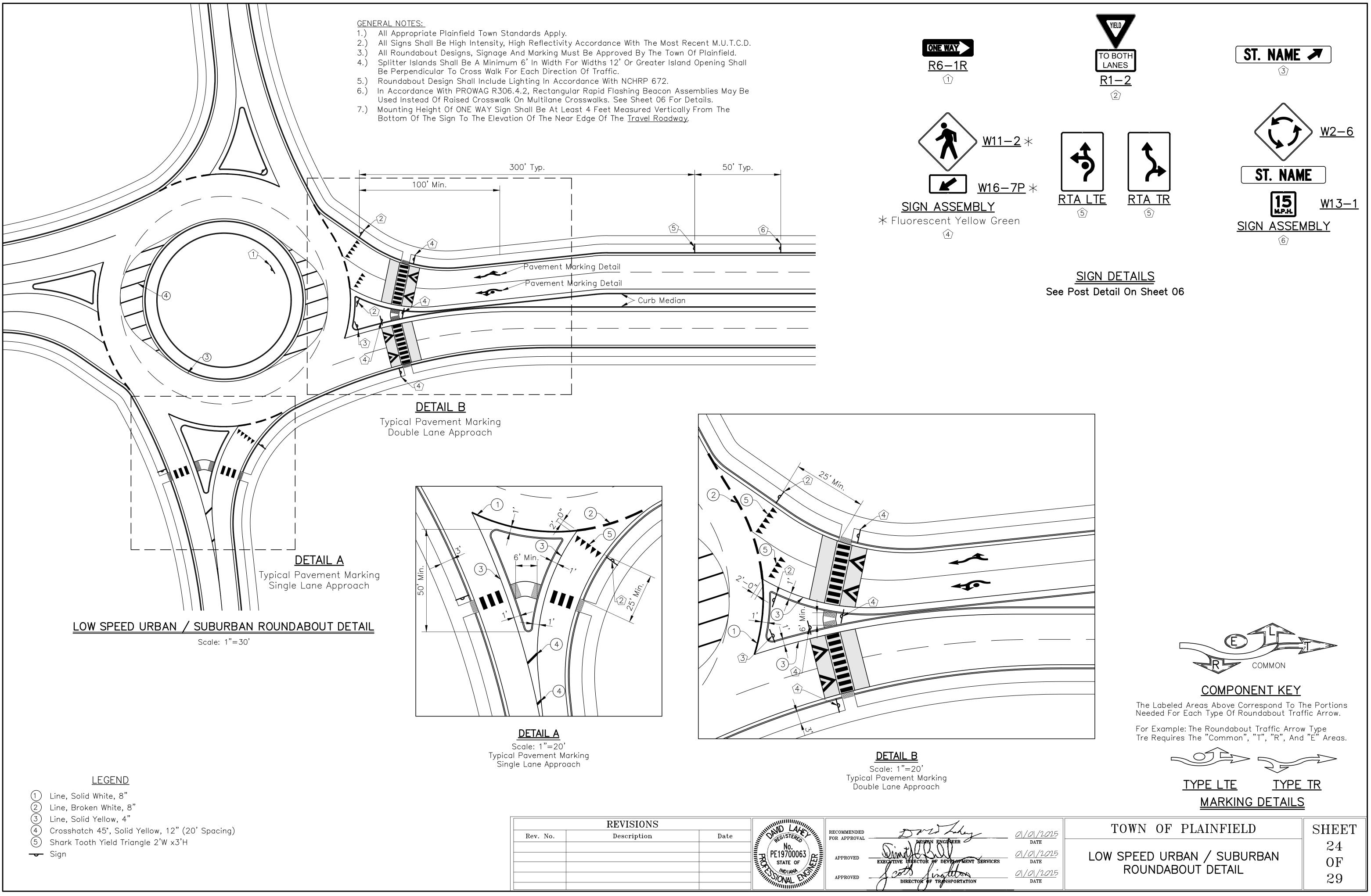
FILTER BAGS (PUMP DISCHARGE FILTER BAGS)

Not To Scale

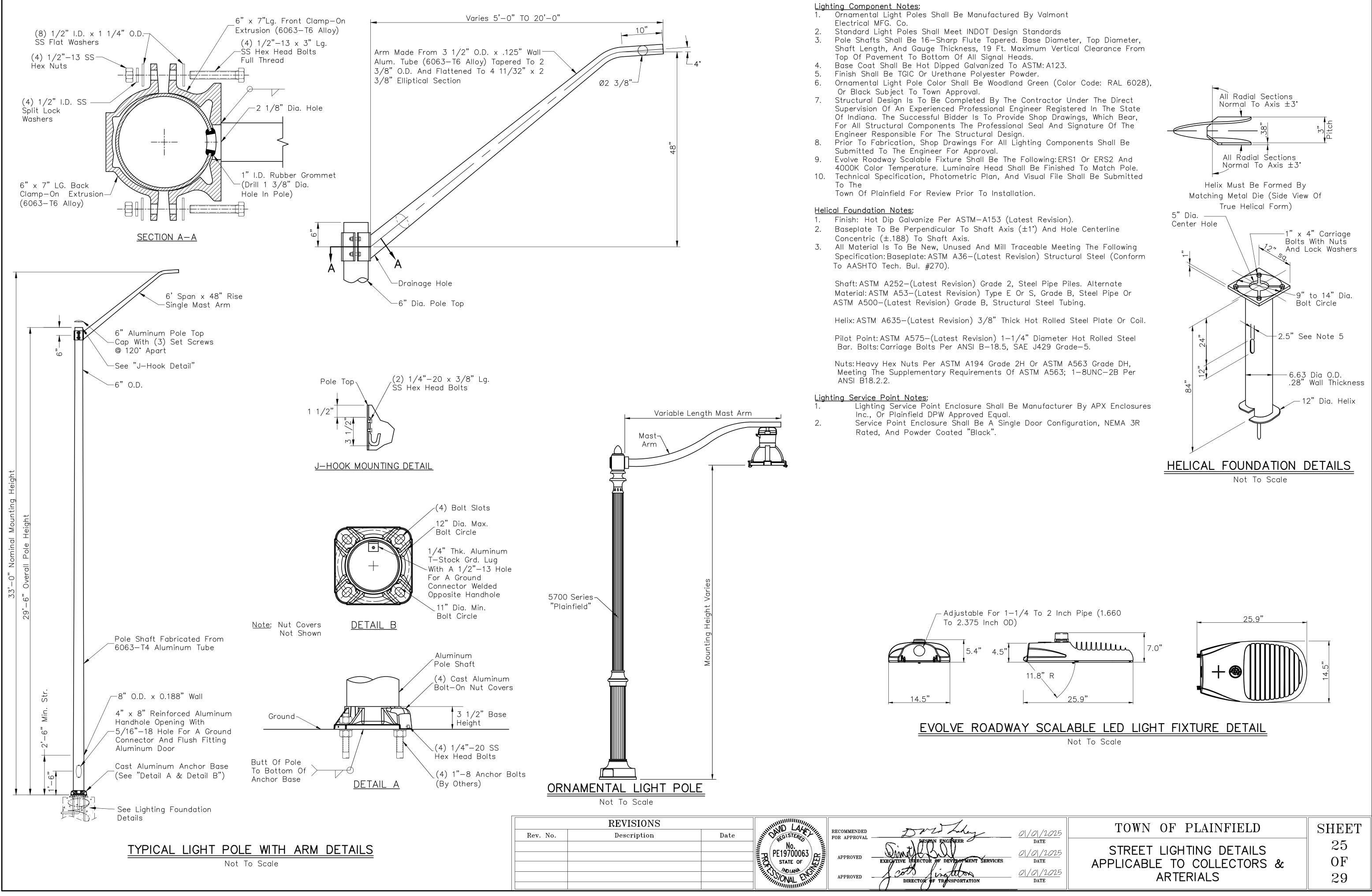
REVISIONS				
Description	Date	IN DALGISTERES	RECOMMENDED FOR APPROVAL	DESIGN ENGINE
		No. PE19700063	APPROVED	EXECUTIVE DIRECTOR OF DEVEL
		MOIANA CHINA	APPROVED	Shownon S MS4 OPERATOR
-	Description	Description Date Date		No. PE19700063 STATE OF MOLANA

hey 01/01/2025	TOWN OF PLAINFIELD	SHEET
$\frac{DATE}{DATE}$ OPMENT SERVICES $\frac{O /O /2025}{DATE}$	EROSION CONTROL MEASURES	23 0F
Date 01/01/2025		29

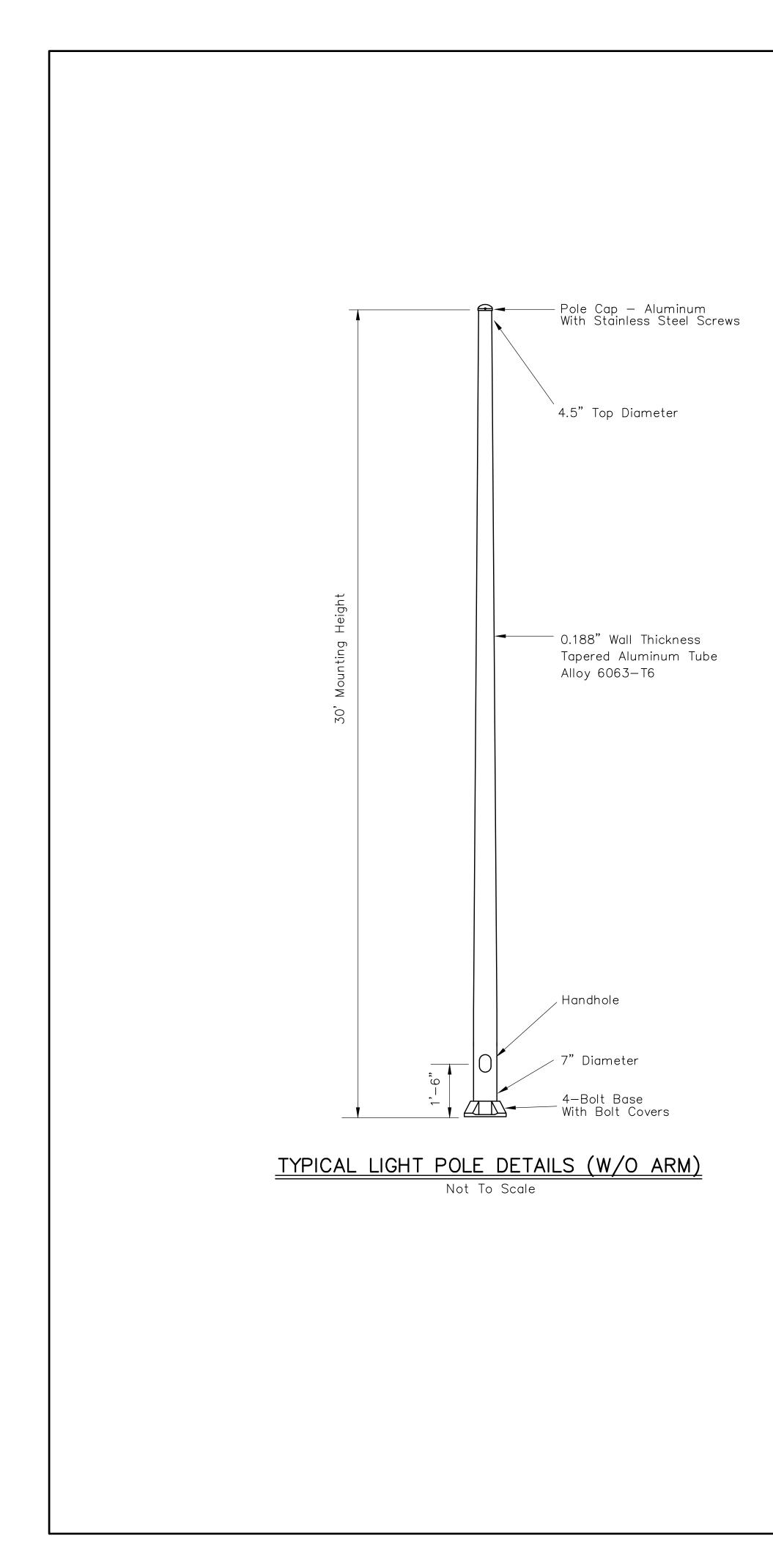
Discharge Pathway Must Be Stable For Outflow Or Install Stabilized Pathway For Outflow Ground Slopes Away From Filter Bag, Max Slope <5%



	REVISIONS				
Rev. No.	Description	Date	IN OR GISTERES	RECOMMENDED FOR APPROVAL	DNL
			No.		(+) DESTRINE
				APPROVED	Winnight for
			STATE OF		EXECUTIVE DIRECTOR OF
			- TISS MOIANA COURT	APPROVED	1 con fu
					DIRECTOR OF T



1.	Lighting					
	Inc., Or	Plai	nfield	d DF	۶W	Ар
2.	Service	Poin	t En	clos	ure	S
	Rated,	And	Powe	der	Сос	ate



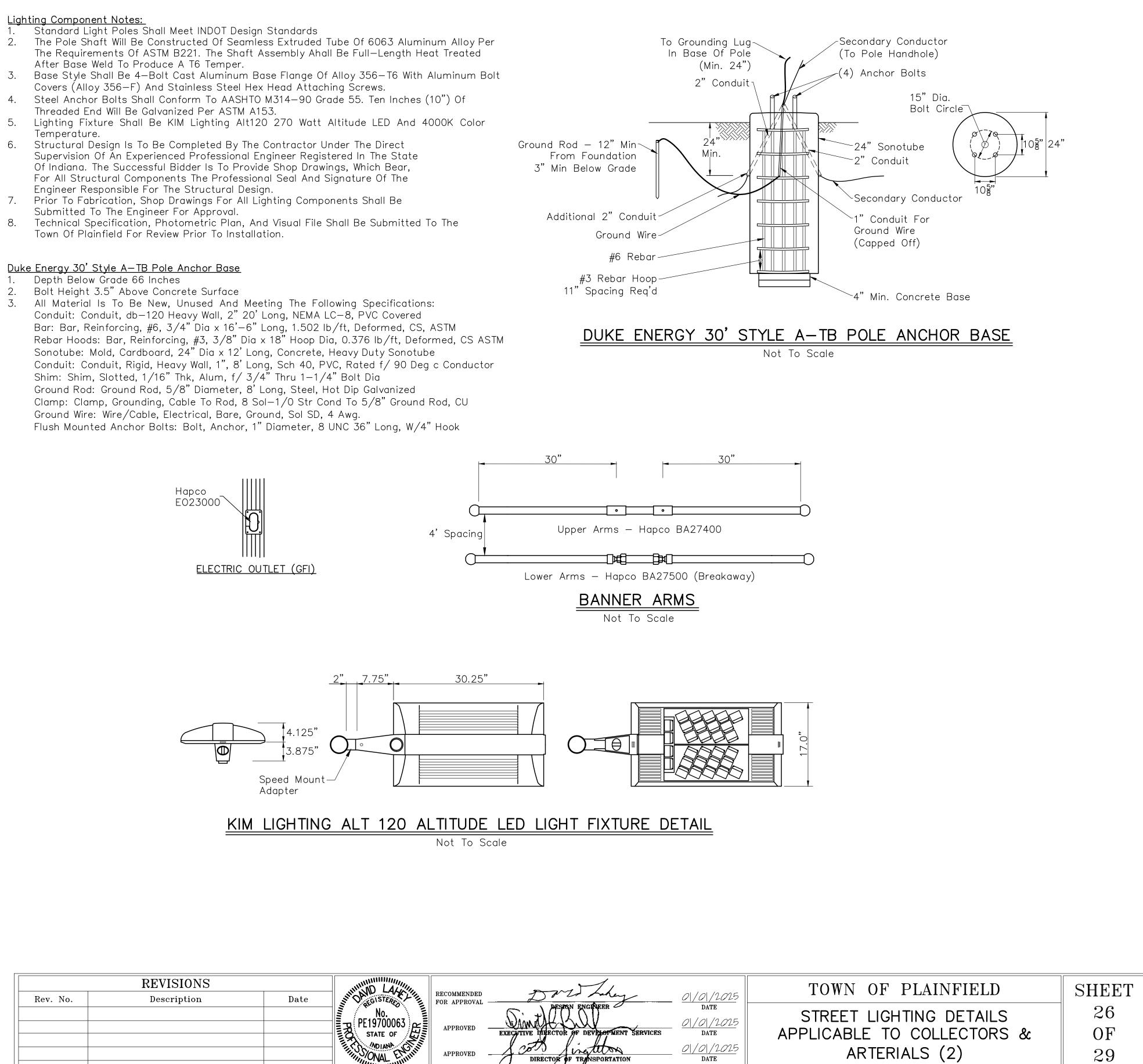
Lighting Component Notes:

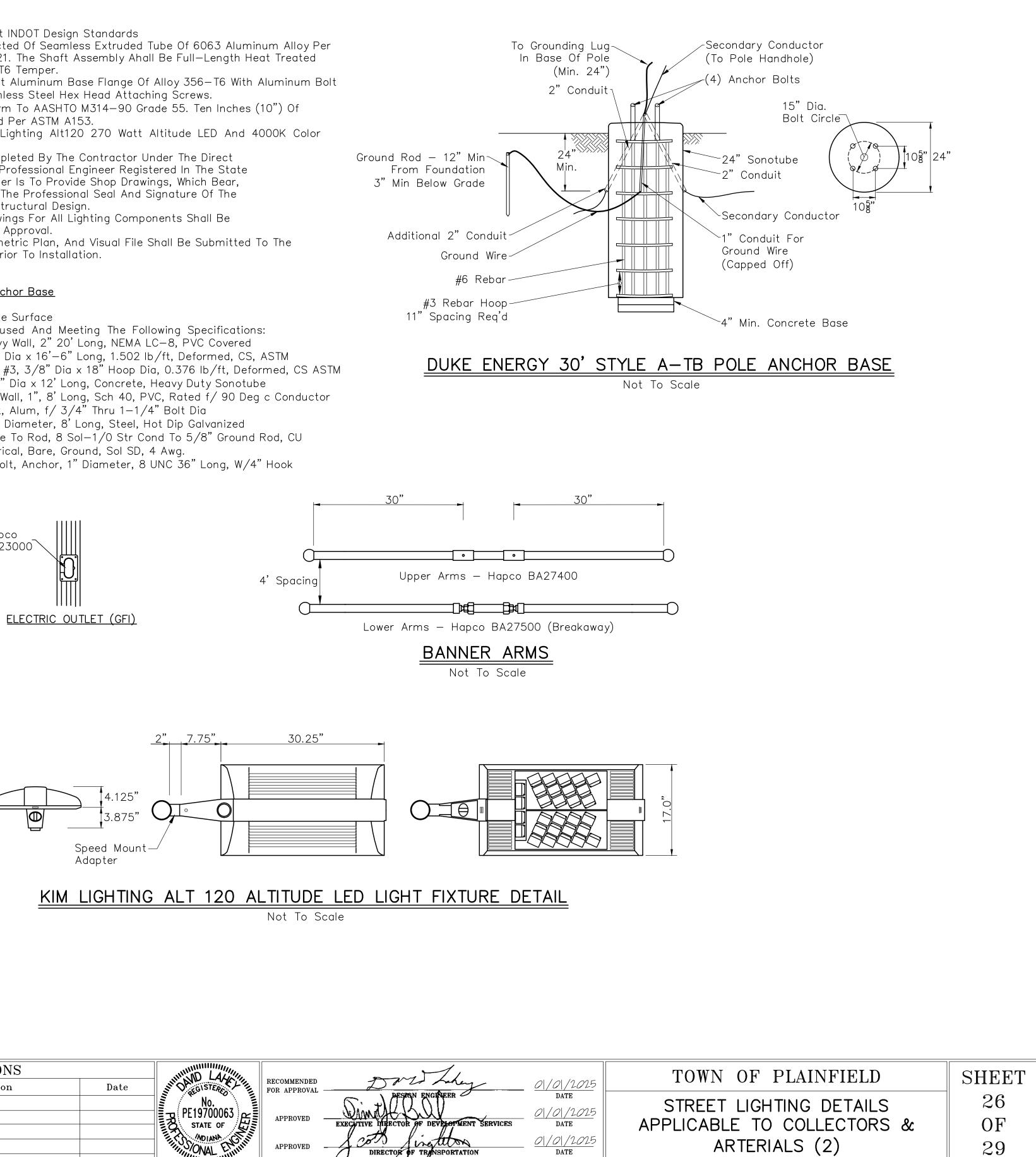
- The Requirements Of ASTM B221. The Shaft Assembly Ahall Be Full—Length Heat Treated After Base Weld To Produce A T6 Temper.
- 3. Base Style Shall Be 4-Bolt Cast Aluminum Base Flange Of Alloy 356-T6 With Aluminum Bolt Covers (Alloy 356-F) And Stainless Steel Hex Head Attaching Screws.
- Threaded End Will Be Galvanized Per ASTM A153. 5. Lighting Fixture Shall Be KIM Lighting Alt120 270 Watt Altitude LED And 4000K Color Temperature.
- 6. Structural Design Is To Be Completed By The Contractor Under The Direct Supervision Of An Experienced Professional Engineer Registered In The State Of Indiana. The Successful Bidder Is To Provide Shop Drawings, Which Bear, For All Structural Components The Professional Seal And Signature Of The
- Submitted To The Engineer For Approval.
- 8. Technical Specification, Photometric Plan, And Visual File Shall Be Submitted To The Town Of Plainfield For Review Prior To Installation.

<u>Duke Energy 30' Style A-TB Pole Anchor Base</u>

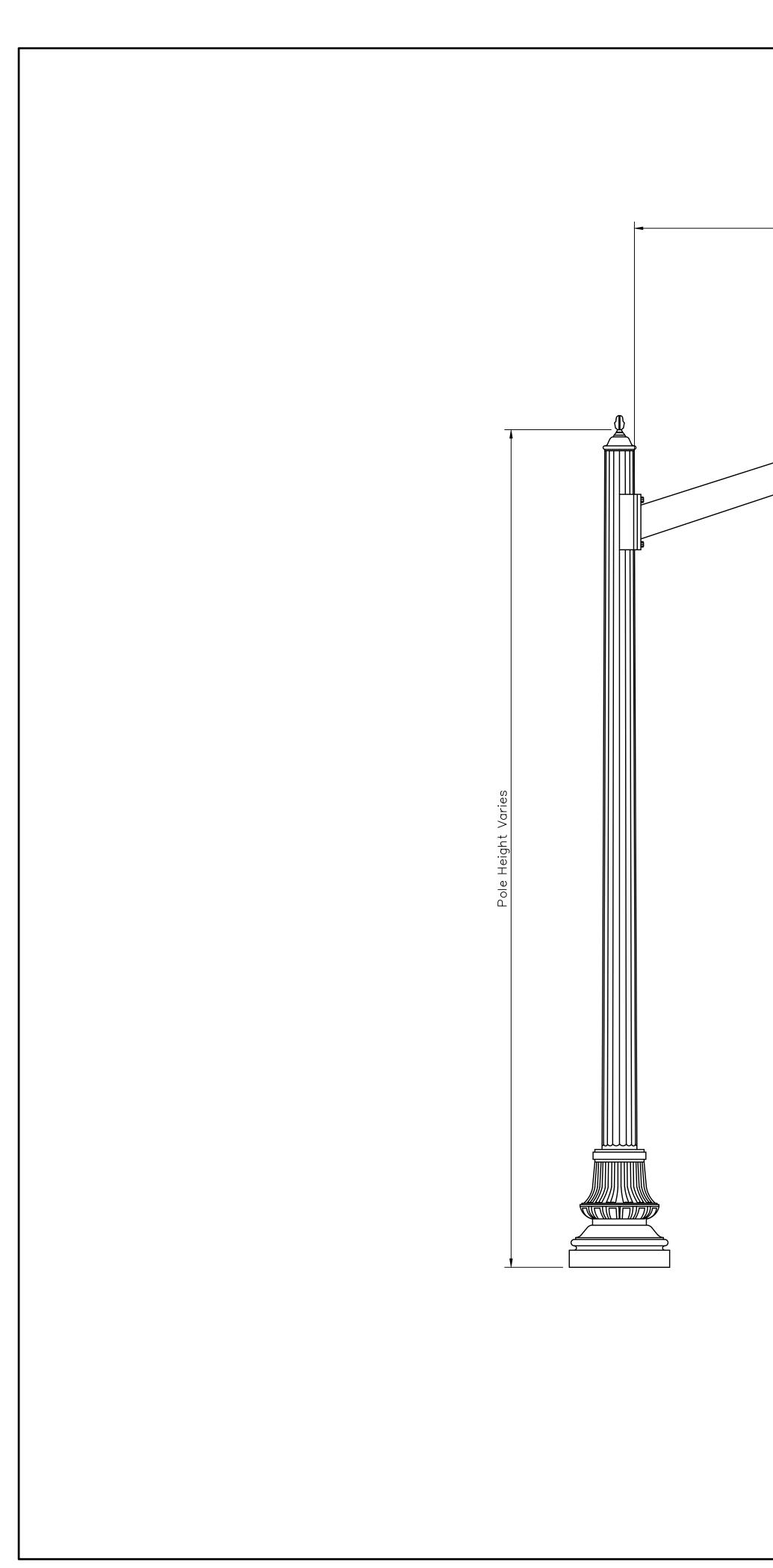
- 1. Depth Below Grade 66 Inches
- Bolt Height 3.5" Above Concrete Surface 2. 3. All Material Is To Be New, Unused And Meeting The Following Specifications: Conduit: Conduit, db-120 Heavy Wall, 2" 20' Long, NEMA LC-8, PVC Covered
- Bar: Bar, Reinforcing, #6, 3/4" Dia x 16'-6" Long, 1.502 lb/ft, Deformed, CS, ASTM
- Sonotube: Mold, Cardboard, 24" Dia x 12' Long, Concrete, Heavy Duty Sonotube
- Shim: Shim, Slotted, 1/16" Thk, Alum, f/ 3/4" Thru 1-1/4" Bolt Dia
- Ground Rod: Ground Rod, 5/8" Diameter, 8' Long, Steel, Hot Dip Galvanized
- Clamp: Clamp, Grounding, Cable To Rod, 8 Sol-1/0 Str Cond To 5/8" Ground Rod, CU
- Ground Wire: Wire/Cable, Electrical, Bare, Ground, Sol SD, 4 Awg.

Flush Mounted Anchor Bolts: Bolt, Anchor, 1" Diameter, 8 UNC 36" Long, W/4" Hook





	REVISIONS				
Rev. No.	Description	Date	IN DALEGISTERES	RECOMMENDED	Drut
			No.		Di t) DESTRON ENGLIS
				APPROVED	EXECUTIVE DIRECTOR OF DEVE
			MOIANA CAN		froth linet
			- MAL EMMINI	APPROVED	DIRECTOR OF TRANSF



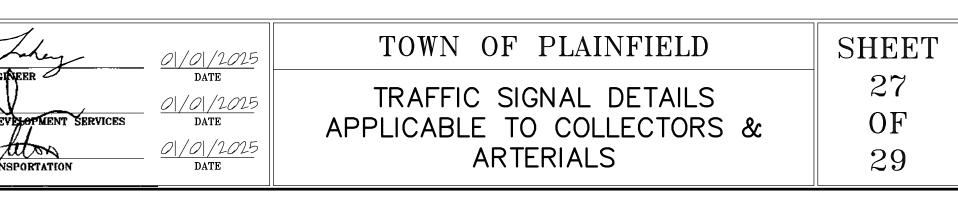
Variable Length Mast Arm

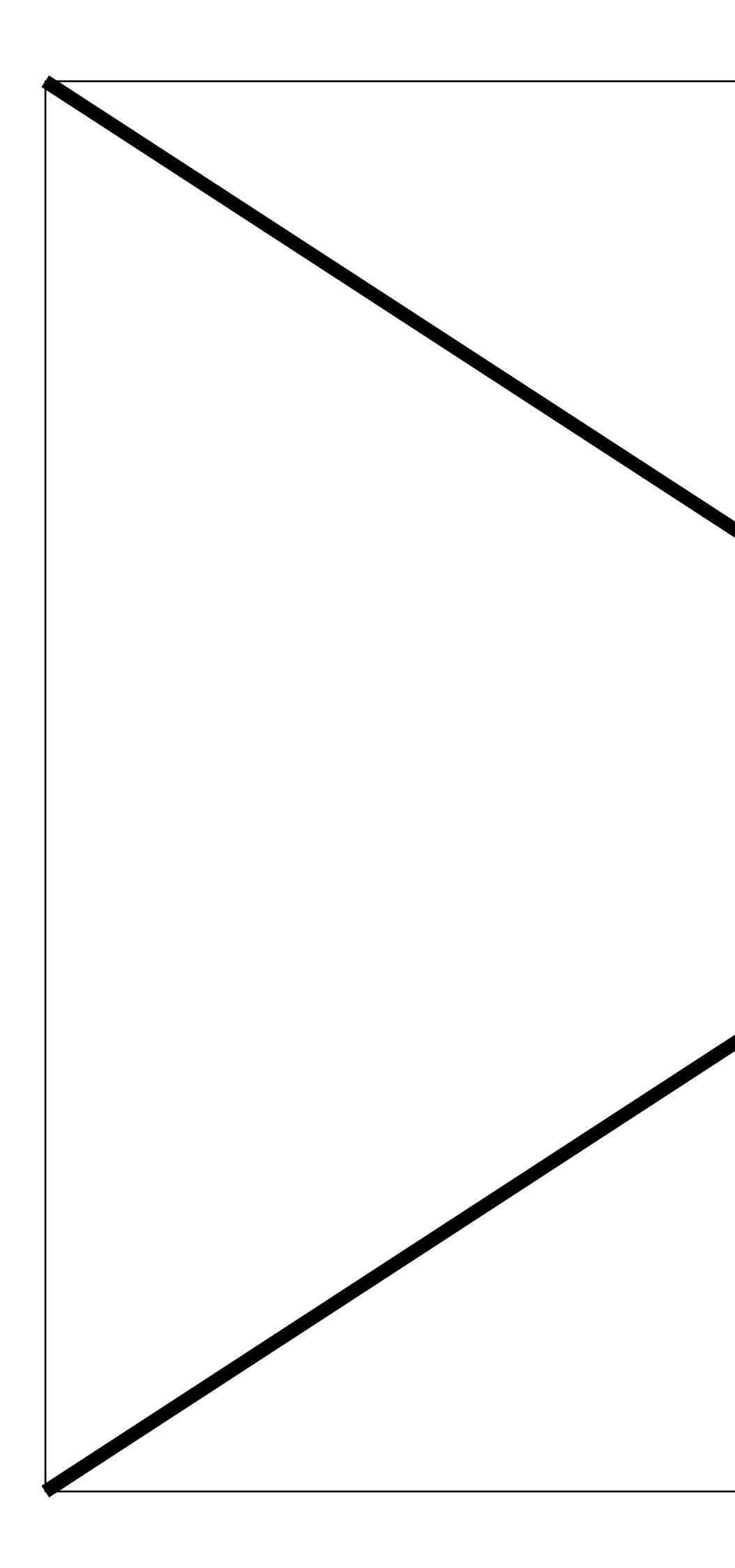
- NOTES: 1. Ornamental Signal And Sign Structures Shall Be Manufactured By Valmont Electrical Mfg. CO., P.O. Box 358, Valley, Nebraska 68064—0358.
- 2. Mast Arms Shall Be Curved Style, 30, 40 & 50 Ft. Spans. Gauge Thickness, Fixed End Diameter, And Free End Diameter To Be Determined By Manufacturer.
- Pole Shafts Shall Be 16—Sharp Flute Tapered. Base Diameter, Top Diameter, Shaft Length, And Gauge Thickness, 19 Ft. Maximum Vertical Clearance From top of Pavement To Bottom Of All Signal Heads.
- 4. Base Coat Shall Be Hot Dipped Galvanized To ASTM A123
- 5. Finish Shall Be TGIC Or Urethane Polyester Powder.
- 6. Color Shall Be Woodland Green (Color Code: RAL 6028).
- 7. Structural Design Is To Be Completed By The Contractor Under The Direct Supervision Of An Experienced Professional Engineer Registered In The State Of Indiana. The Successful Bidder Is To Provide Shop Drawings, Which Bear, For All Structural Components The Professional Seal And Signature Of The Engineer Responsible For The Structural Design.
- 8. Prior To Fabrication, Shop Drawings For The Ornamental Signal Shall Be Submitted To The Engineer For Approval.
- 9. Clamp—on Mast Arms Will Not Be Permitted.

DECORATIVE TRAFFIC SIGNAL POLE

Not To Scale

Г						
		REVISIONS				
	Rev. No.	Description	Date	IN DALEGISTERES LI	RECOMMENDED FOR APPROVAL	DESIGN ENGL
						TO L'AK with
				STATE OF	APPROVED	EXECUTIVE DIRECTOR OF DEV
				MOIANA CONT		1 cots firet
				- MOONAL Elimin	APPROVED	DIRECTOR OF TRANS





 Rev. No.
 Description
 Date

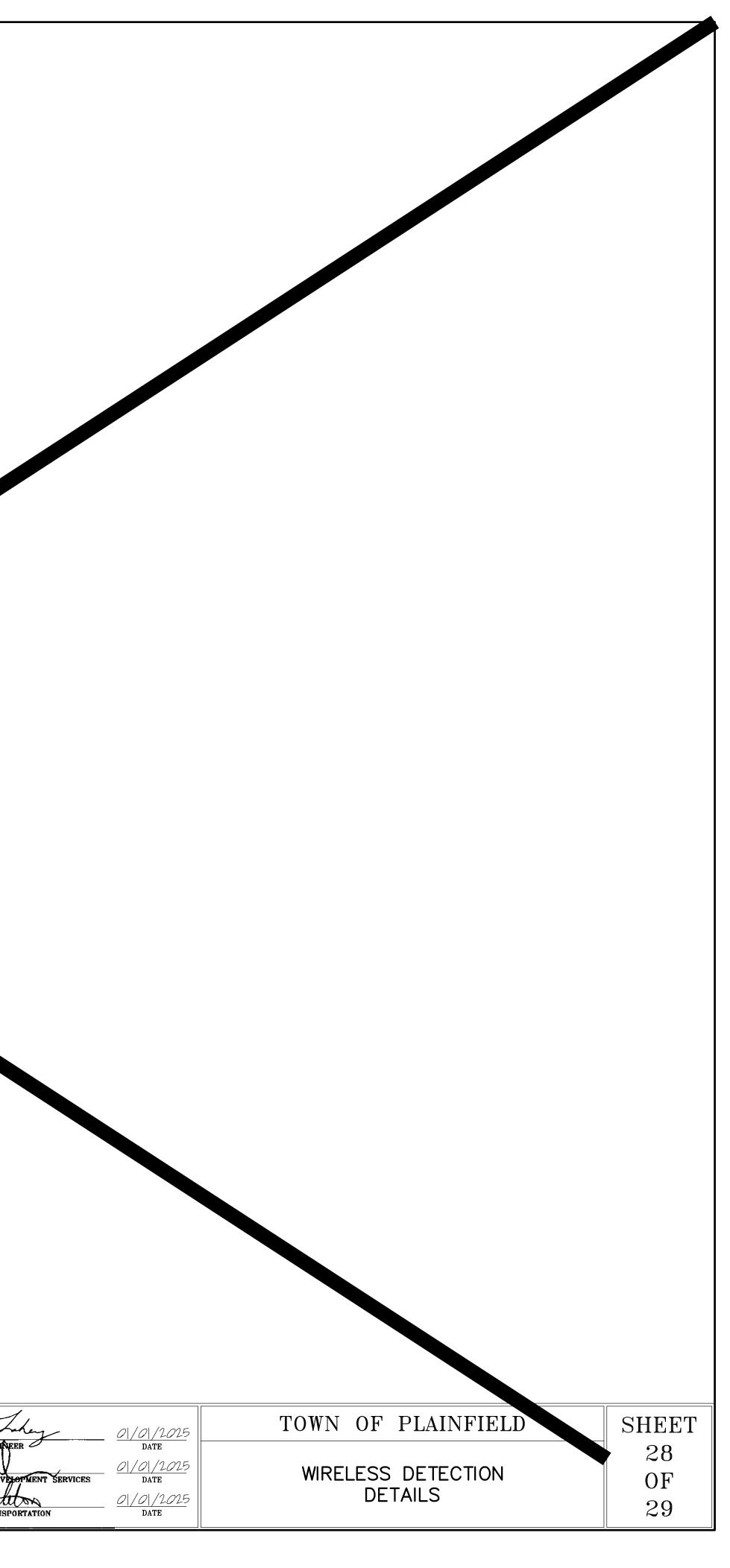
 No.
 Description
 Date

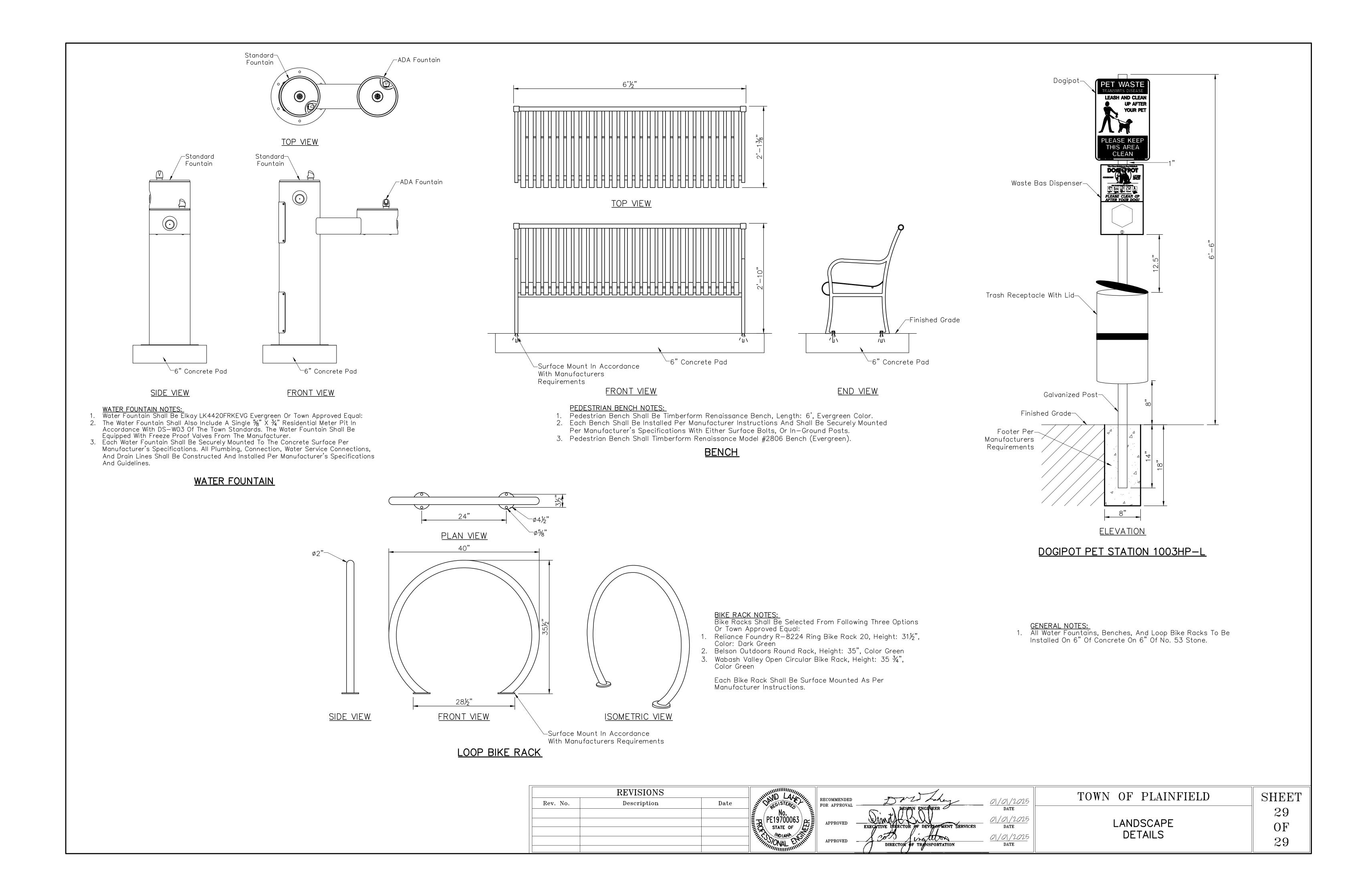
 No.
 PE19700063

 STATE OF
 MOLAN

 MOLAN
 ONAL

 MOLAN
 DIRECTOR OF TRANSPORTATION





COORDINATION WITH OTHER TRADES

- 1. The Contractor shall coordinate and check all dimensions relating to Architectural finishes, mechanical equipment and openings, elevator shafts and overrides, etc. and notify the Architect/Engineer of any
- discrepancies before proceeding with any work in the area under question.
- 2. The Structural Drawings shall be used in conjunction with the Drawings of all other disciplines and the Specifications. The Contractor shall verify the requirements of other trades as to sleeves, chases. hangers, inserts, anchors, holes, and other items to be placed or set in the Structural Work.
- 3. There shall be no vertical or horizontal sleeves set, or holes cut or drilled in any beam or column unless shown on the Structural Drawings or approved in writing by the SER.
- 4. Mechanical and electrical openings through supported slabs and walls, 8" diameter or larger not shown on the Structural Drawings must be approved by the SER. Openings less than 8" diameter shall have
- at least 1'-0" clear between openings, unless approved in writing by the SER. 5. Verify locations and dimensions of mechanical and electrical openings through supported slabs and
- walls shown on the Structural Drawings with the Mechanical and Electrical Contractors. 6. Do not install conduit in supported slabs, slabs on grade, or concrete walls unless explicitly shown or
- noted on the Structural Drawings. 7. Do not suspend any items, such as ductwork, mechanical or electrical fixtures, ceilings, etc. from steel
- roof deck or wood roof sheathing. 8. The Mechanical Contractor shall verify that mechanical units supported by steel framing are capable of
- spanning the distance between the supporting members indicated on the Structural Drawings. The Mechanical Contractor shall supply additional support framing as required. 9. If the Drawings and Specifications are in conflict, the most stringent restrictions and requirements shall

GENERAL NOTES

- 1. The Contractor shall be responsible for complying with all safety precautions and regulations during the work. The SER will not advise on, nor issue direction as to safety precautions and programs. 2. The Structural Drawings herein represent the finished structure. The Contractor shall provide all temporary guying and bracing required to erect and hold the structure in proper alignment until all
- Structural Work and connections have been completed. The investigation, design, safety, adequacy and inspection of the bracing, shoring, temporary supports, etc. is the sole responsibility of the Contractor.
- 3. The SER shall not be responsible for the methods, techniques and sequences of procedures to perform the Work. The supervision of the Work is the sole responsibility of the Contractor.
- 4. The Drawings indicate general and typical details of construction. Where conditions are not specifically shown, similar details of construction shall be used, subject to approval of the SER.
- 5. All structural systems which are to be composed of components to be field erected shall be supervised by the Supplier during manufacturing, delivery, handling, storage, and erection in accordance with the Supplier's instructions and requirements.
- 6. Loading applied to the structure during the process of construction shall not exceed the safe loadcarrying capacity of the structural members. The live loads used in the design of this structure are indicated in the "Design Criteria Notes." Do not apply any construction loads until structural framing is properly connected together and until all permanent bracing is in place. 7. All ASTM and other referenced standards and codes are for the latest editions of these publications,
- unless noted otherwise. 8. Shop drawings and other items shall be submitted to the SER for review prior to fabrication. All Shop Drawings shall be reviewed by the Contractor before submittal. The SER's review is to be for conformance with the design concept and general compliance with the relevant Contract Documents. The SER's review does not relieve the Contractor of the sole responsibility to review, check, and coordinate the Shop Drawings prior to submission. The Contractor remains solely responsible for errors and omissions assocated with the preparation of Shop Drawings as they pertain to member
- sizes, details, dimensions, etc. 9. Submit Shop Drawings electronically. In no case shall reproductions of the Contract Documents be used as Shop Drawings. As a minimum, submit the following items for review.
- A. Concrete Mix Design(s). B. Reinforcing Steel Shop Drawings.
- C. Masonry Wall Reinforcing Steel Shop Drawings. D. Structural Steel Shop Drawings.
- E. Steel Joist Shop Drawings. F. Steel Deck Shop Drawings.
- G. Cold-Formed Steel Framing Systems. H. Prefabricated Wood Truss and Wall Panel Systems.
- 10. Resubmitted Shop Drawings: Resubmitted shop drawings are reviewed only for responses to
- comments made in the previous submittal.
- 11. When calculations are included in the submittals for components of work designed and certified by a Specia Structural Engineer, the review by the Structural Engineer of Record (SER) shall be for conformance with th Documents The SER's review does not relieve the Specialty Structural Engineer from responsiblity for the design of the system(s) and the coordination with the elements of the structure under the certification of the Engineer of Record, or other Specialty Structural Engineer. The SER's review does not constitute a warranty of the accuracy or completeness of the Specialty Structural Engineer's design. 12. Contractors shall visit the site prior to bid to ascertain conditions which may adversely affect the work
- or cost thereof 13. No structural member may be cut, notched, or otherwise reduced in strength without written direction
- from the SER.
- 14. When modifications are proposed to structural elements under the design and certification of a Specialty Engineer, written authorization by the Specialty Engineer must be obtained and submitted to the SER for review, prior to performing the proposed modifications.

FOUNDATIONS

- 1. Proofroll slab on grade areas with a medium-weight roller or other suitable equipment to check for pockets of soft material hidden beneath a thin crust of better soil. Any unsuitable materials thus exposed should be removed and replaced with compacted, engineered fill as outlined in the
- specifications. Proofrolling operations shall be monitored by the Geotechnical Testing Agency All engineered fill beneath slabs and over footings should be compacted to a dry density of at least 95% of the Standard Proctor maximum dry density (ASTM D698). All fill which shall be stressed by foundation
- loads shall be approved granular materials compacted to a dry density of at least 100% (ASTM D698). Coordinate all fill and compaction operations with the Specifications and the Subsurface Investigation 3. Compaction shall be accomplished by placing fill in approx. 8" lifts and mechanically compacting each lift to at least the specified minimum dry density. For large areas of fill, field density tests shall be performed for each 3,000 square feet of building area for each lift as necessary to insure adequate
- compaction is being achieved. 4. Column footings and wall footings to bear on firm natural soils or well-compacted engineered fill with an assumed allowable bearing pressure of 1,600 PSF for column and wall footings. It is essential that the foundations be inspected to ensure that all loose, soft or otherwise undesirable material (such as organics, existing fill, etc.) is removed and that the foundation will bear on satisfactory material. The Geotechnical Testing Agency shall inspect the subgade and perform any necessary tests to insure that the actual bearing capacities meet or exceed the design capacities.
- The Testing Agency shall verify the bearing capacity at each spread column footing and every 10 feet on center for strip footings prior to placement of concrete. 5. Place footings the same day the excavation is performed. If this is not possible, the footings shall be adequately protected against any detrimental change in condition, such as from disturbance, rain and
- 6. It is the responsibility of the Contractor and each Sub-Contractor to verify the location of all utilities and services shown, or not shown, and establish safe working conditions before commencing work.
- 7. The Contractor shall lay out the entire building and field verify all dimensions prior to excavation.

POST-INSTALLED DOWELS & ANCHOR RODS

- 1. All reinforcing steel and threaded rod anchors to be installed in 2-part chemical anchoring system shall be treated as follows: A. Drill holes larger than bar or rod to be embedded. Coordinate hole diameter with Manufacturer's
- requirements B. Holes must be cleaned and prepared in accordance with Manufacturer's requirements. C. When reinforcing steel is encountered during drilling for installation of anchors, stop drilling and use a sensor to locate the reinforcing in the surrounding area and install anchor(s) as close as possible to the original location. Contact the Structural Engineer of Record for direction when the revised location is more than 2" from the original location, or when the original function of the anchorage is significantly altered. When in doubt, contact the SER for direction.
- D. Drill the hole a minimum of 15 bar diameters or as shown on the Drawings. E. Use a 2-part adhesive anchoring system, Hilti HIT-HY 200, or approved equal F. For anchorage into hollow substrate, use Hilti HIT-HY 270, or approved equal.
- G. Reinforcing steel dowels shall be ASTM A615, Grade 60, unless noted.
- H. Anchor rods shall be ISO 898 5.8 (Hilti HAS-E), unless noted. Provide finish as noted on the Drawings. If not noted, provide hot-dip galvanized finish for interior applications. Provide stainless
- steel finish for exterior applications, unless noted. When column anchor bolts/rods have been omitted, or damaged by construction operations, the Contractor must obtain the written approval of the SER prior to repair and/or replacement. A. As a precaution, the affected column must be guyed and braced after repair for the balance of the
- erection period.
- B. As an alternate to guying and bracing, the Contractor may at his option, employ a testing agency to perform a tensile pull test to confirm the strength of the repaired or replaced anchor bolt/rod. The tensile proof load must exceed 1.33 x the design load of the original anchor without causing distress of the anchor bolt/rod or the surrounding concrete. Reference the following table for the minimum proof loads: 3/4" diameter: 11.6 kips 7/8" diameter: 16.0 kips
- 1" diameter: 20.9 kips
- Note: Values listed above are for ASTM F1554, Grade 36 material. When higher grade or strength materials are specified, refer to the AISC Manual of Steel Construction for minimum allowable loads to be multiplied by 1.33. C. When affected anchor bolts/rods are part of a fixed moment-resisting column base, such as those
- in moment-resisting space frames, canopies, or fixed-base installations, the repaired anchor bolts/rods must be proof-loaded, or the affected column footing and/or pier replaced in its entirety. D. When affected anchor bolts/rods are 1-1/8" diameter or larger, the affected column footing and/or
- pier must be replaced in its entirety. E. When affected anchor bolts/rods are part of a braced frame, the affected column footing and/or pier must be replaced in its entirety.
- F. Prior to erection, the controlling Contractor must provide written notification to the Steel Erector if there has been a repair, replacement or modification of the anchor bolts/rods for that column.

	DESIGN CR		
1.		-	tandards and/or criteria are as follows:
	General Concrete	ÀCI318	Building Code [IBC] with Indiana Amendments)
	Masonry Steel Steel Joists/Girders	ACI 530 / TMS 402 AISC Manual, Allov Steel Joist Institute	vable Stress Design (ASD)
	Steel Deck Cold-Formed Metal	Steel Deck Institute AISI-ASD	
		and codes, as well as	ASTM numbers are for the latest editions of these
2.	materials of construction i ceilings, stairways, fixed p	incorporated into the b partitions, finishes, cla ical, electrical and plu	e design of the structure are as computed for the uilding, including but not limited to walls, floors, dding and other similar architectural and structural nbing equipment and fixtures, and material handling ht of cranes.
3.	been used to account for	ductwork, ceilings, spi al units, larger piping	a minimum uniform collateral load of 10 PSF has inklers, lighting, etc. The collateral load is in additio (greater than 4" diameter) and suspended fixtures o d for in the design.
4.	exceed the following table		ds used in the design of the roof structure meet or
	A. Snow Load Ground Snow Loa	id pa	20 PSF
	Flat Roof Snow Lo	bad, p _f	14 PSF
	Low-Slope Minimu Snow Exposure F	um Roof Snow Load, p	0m 20 PSF 1.0
	•	C 2012, Table 1604.5)	
	Snow Importance	Factor, Is	1.0
	Thermal Factor, C		1.0
	B. Minimum Roof Live LC. Overhanging Eaves,	.oad Canopies & Projectio	20 PSF ns 30 PSF
	must consider	snow drift loads in the	with Section 7.7, ASCE 7. Specialty Engineers design of pre-engineered trusses, frames, netal framing, canopies, etc.
5.	HANDRAILS AND GUAR		
	A. Handrail Assemblies	and Guards	50 PLF applied in any direction 200 LB concentrated load applied in any direction (non-concurrent with 50 PLF load).
	B. Components, Intermo Balusters, Fillers, Etc		50 LBS horizontally applied normal load on an area not to exceed 1 SF, not superimposed with those of handrail assemblies.
6.	LATERAL LOADS: Later	al loads were compute	ed using the following criteria:
	A. Wind Load		
	Ultimate Design V Nominal Design V	Vind Speed, Vasd	115 MPH 89.1 MPH
	Wind Exposure Ca Risk Category (IB)	ategory C 2012, Table 1604.5)	C
	Internal Pressure		+/- 0.18
	B. Seismic Load		
	Site Class	0 0040 T 11 4004 5	D (Assumed)
	Risk Category (IB Seismic Important	C 2012, Table 1604.5)	II 1.00
	•	Response Acceleratio	
		Response Acceleratio	
		esponse Acceleration	
		esponse Acceleration	Parameter, S _{D1} 0.146g C
	Seismic Design C Analysis Procedu		Equivalent Lateral Force
	Seismic Force-Re		Ordinary Reinforced Masonry Shear Walls
	Reenance	Iodification Coefficient	
	•	ponse Coefficient, Cs	, R 2 0.093
			0.093W
_	CALETY EVOTODO TH	e etructure has have -	
,	JAFELT FAULUKS: IN	ຣ ຣແພບເພເຍ Mas Deen C	esigned with 'Safety Factors' in accordance with
7.		uctural engineering T	he fundamental nature of the 'Safety Factor' is to

LINTEL SCHEDULE

1. Where lintels are not specifically shown or noted on the Structural or Architectural Drawings, provide the following lintels over all openings and recesses in both interior and exterior non-load-bearing walls

fall below the design load and that the building will perform under design load without distress. While

the use of 'Safety Factors' implies some excess capacity beyond design load, such excess capacity

cannot be adequately predicted and SHALL NOT BE RELIED UPON.

	iowing intels over all open	ings and recesses	In pour interior and exterior non-load-bearing waits.
A)	Brick: Masonry O	pening	Angle Size
	Up to 5'-0"		L4x4x5/16
	5'-1" to 7'-0		L6x4x5/16
	7'-1" to 12'-	0"	L7x4x3/8
	All angles are LLV (long span each end with mini	• ,	s noted otherwise. Provide 1" bearing length per foot of
B)	Block: For openings up Grout all exposed joints		ed in the finished room, use lintel block filled with grout. Ilows:
	1. For 6" thick block:	1 - #5 bar.	
	2. For 8" thick block:	2 - #5 bars.	
	3. For 10" thick block:	2 - #6 bars.	
	4. For 12" thick block:	2 - #6 bars.	
C)			" long exposed in the finished room, use lintel block filled nforce per the "Long Masonry Lintel Detail" on the Typical

D) Shore all block and steel angle lintels over 8'-0" in length until masonry has attained its specified design

CAST IN PLACE CONCRETE

- 1. Details of fabrication of reinforcement, handling and placing of the concrete, construction of forms and placement of reinforcement not otherwise covered by the Plans and Specifications, shall comply with the ACI Code requirements of the latest revised date.
- 2. Cold weather concreting shall be in accordance with ACI 306. Cold weather is defined as a period when for more than 3 successive days the average daily air temperature drops below 40F and
- stays below 50F. The Contractor shall maintain a copy of this publication on site. 3. Hot weather concreting shall be in accordance with ACI 305. Hot weather is defined as any combination of the following conditions that tends to impair the quality of the freshly mixed or
- hardened concrete: high ambient temperature, high concrete temperature, low relative humidity, wind speed, or solar radiation. The Contractor shall maintain a copy of this publication on site.
- 4. A certified Testing Agency shall be retained to perform industry standard testing including measurement of slump, air temperature, concrete cylinder testing, etc. to ensure conformance with the
- Contract Documents. Submit reports to the Architect/Engineer 5. FINISHING OF SLABS: After screeding, bull floating and floating operations have been completed, apply final finish as indicated below, and as described in the Division 3 Cast In Place Concrete
- Specification of the Project Manual. Hard Trowel Finish, unless noted otherwise A. Floor Slabs B. Ramps, Stairs & Sidewalks Broom Finish
- C. Surfaces to Recieve Topping Slabs None - Float Finish None - Float Finish D. Surfaces to recieve thick-set mortar
- beds or similar cementitious materials Sample Finishes: See the Specifications for sample and mockup requirements, if any. Coordinate
- floor finishes with the architectural Finish Plan. Floor Tolerances: See the Specifications for specified Ff and FI tolerances. Ff and FI testing shall be performed by the Testing Agency in accordance with ASTM E1155. Results, including acceptance or
- rejection of the work will be provided to the Contractor and the Architect/Engineer within 48 hours after data collection. Remedies for out-of-tolerance work shall be in accordance with the Specifications. When
- approved by the SER, measurement of the gaps beneath a 10-foot straight edge may be used in lieu of Ff and FI testing. Approval must be obtained in writing prior to the beginning of concrete operations.
- 5. FINISHING OF FORMED SURFACES: Finish formed surfaces as indicated below, and as described in the Division 3 Cast In Place Concrete Specification of the Project Manual.
- A. Sides of Footings & Pile Caps Rough Form Finish Rough Form Finish B. Sides of Grade Beams
- Rough Form Finish C. Surfaces not exposed to public view D. Surfaces exposed to public view Smooth Form Finish
- 7. The Contractor shall consult with the Engineer before starting concrete work to establish a satisfactory placing schedule and to determine the location of construction joints so as to minimize the effects of shrinkage in the floor system.
- 8. Sawn or tooled control/contraction joints shall be provided in all slabs on grade. For a framed structure, joints shall be located on all column lines. Provide intermediate joints spaced at a maximum of 36 times the nominal slab thickness. Exterior slabs, and interior slabs without columns, shall also have a maximum joint spacing of 36 times the nominal slab thickness. Lay out joints so that maximum aspect ratio (ratio of long side to short side) does not exceed 1.5.
- 9. Where vinyl composition tile, vinyl sheet goods, thin-set epoxy terrazzo, or other similar material is the specified finish floor material, the Contractor shall coordinate the locations of control/contraction and construction joints with the Finish Flooring Contractor. Submit a dimensioned plan showing joint locations and proposed sequence of floor pours.
- 10. Unless specifically noted on the Plans, do not provide sawn control joints in composite and noncomposite supported slabs on metal deck or in supported cast-in-place concrete slabs. 11. Joints in slabs to receive a finish floor may remain unfilled, unless required by the Finish Flooring Contractor. All exposed slabs shall be filled with sealant specified in Division 7, or as follows: All slabs in industrial, manufacturing, or warehouse applications subject to wheeled traffic shall be filled with specified epoxy resin sealant, all other joints shall be filled with specified elastometric sealant. Defer filling of joints as long as possible, preferably a minimum of 4 to 6 weeks after the slab has been cured. Prior to filling,
- remove all debris from the slab joints, the fill in accordance with the manufacturer's recommendations 12. Refer to the Architectural Drawings for locations and details of reveals (1" maximum depth) in exposed walls.
- 13. Refer to the Architectural Drawings for chamfer requirements for corners of concrete. Where not indicated, provide 3/4" chamfers on exposed corners of concrete, except those abutting masonry.
- 14. Refer to the Architectural Drawings for exact locations and dimensions of recessed slabs, ramps, stairs, thickened slabs, etc. Slope slabs to drains where shown on the Architectural and Plumbing Drawings. 15. Sidewalks, stoops, aprons, drives, exterior retaining walls, and other site concrete are not indicated on
- the Structural Drawings. Refer to the Site/Civil and Architectural Drawings for locations, dimensions, elevations, jointing, and finishing details.

CONCRETE MIX CLASSES

FOOTINGS	
COMPRESSIVE STRENGTH	4000 PSI
MAXIMUM WATER/CEMENT RATIO	0.58
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	OPTIONAL
SLUMP	4" +/- 1"
FOUNDATION WALLS, RETAINING WALLS, PIERS, GRADE E	BEAMS & TIE BEAMS
COMPRESSIVE STRENGTH	4000 PSI
MAXIMUM WATER/CEMENT RATIO	0.50
AIR CONTENT	0 - 3 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	4" +/- 1"
INTERIOR CONCRETE SLABS ON GRADE & SUSPENDED SI	LABS
COMPRESSIVE STRENGTH	4000 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	517 LB/CU YD
AIR CONTENT	0 - 3 PERCENT
SLUMP	4" +/- 1"
WATER-REDUCING ADMIXTURE	REQUIRED
E5 INTERNAL CURE ADMIXTURE	REQUIRED
EXTERIOR CONCRETE SUBJECT TO FREEZE-THAW	
COMPRESSIVE STRENGTH	4000 PSI
MINIMUM CEMENTITIOUS MATERIAL CONTENT	564 LB/CU YD
AIR CONTENT	6 +/- 1 PERCENT
WATER-REDUCING ADMIXTURE	REQUIRED
SLUMP	5" +/- 1"
COARSE AGGREGATE	CRUSHED STONE
INCREASE COMPRESSIVE STRENGTH TO 4500 PSI FO REINFORCED CONCRETE SUBJECT TO THE USE OF D	
LEAN CONCRETE FILL	
COMPRESSIVE STRENGTH	2000 PSI
MAXIMUM WATER/CEMENT RATIO	0.65
AIR CONTENT	OPTIONAL

1. SLUMP: MIXES CONTAINING TYPE A WRDA 5" MAXIMUM MIXES CONTAINING MID-RANGE WRDA 5 - 6½"

WATER-REDUCING ADMIXTURE

SLUMP

- MIXES CONTAINING HIGH-RANGE WRDA 5 - 8" 2. SPECIFIED MINIMUM CEMENTITIOUS MATERIAL CONTENTS ARE BASED ON THE USE OF
- WATER REDUCING ADMIXTURES. 3. INCLUDE AN AIR-ENTRAINING ADMIXTURE FOR ALL CONCRETE EXPOSED TO FREEZING AND THAWING IN SERVICE AND FOR ALL CONCRETE EXPOSED TO COLD WEATHER DURING CONSTRUCTION, BEFORE ATTAINING ITS SPECIFIED DESIGN COMPRESSIVE STRENGTH.
- REF. ACI 306 FOR DEFINITION OF COLD WEATHER. 4. CLASS C FLY ASH MAY BE USED AS A CEMENT SUBSTITUTE WITH A MAXIMUM 20% SUBSTITUTION RATE ON A POUND-PER-POUND BASIS.
- 5. PROPORTION CONCRETE MIXES TO PROVIDE WORKABILITY AND CONSISTENCY TO PERMIT CONCRETE TO BE WORKED READILY INTO THE CORNERS AND ANGLES OF THE FORMS AND AROUND REINFORCEMENT BY THE METHODS OF PLACEMENT AND CONSOLIDATION TO BE EMPLOYED, WITHOUT SEGREGATION AND EXCESSIVE BLEEDING.
- 6. ADJUSTMENTS TO THE APPROVED MIX DESIGNS MAY BE REQUESTED BY THE CONTRACTOR WHEN JOB CONDITIONS, WEATHER, TEST RESULTS, OR OTHER CIRCUMSTANCES WARRANT. THESE REVISED MIX DESIGNS SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO USE.

OPTIONAL

4" +/- 1"

CONCRETE REINFORCING

1. Reinforcement, other than cold drawn wire for spirals and welded wire fabric, shall have deformed surfaces in accordance with ASTM A305.

2. Reinforcing steel shall conform to ASTM A615, Grade 60, unless noted. 3. Welded wire fabric shall conform to ASTM A1064, unless noted.

4. Where hooks are indicated, provide standard hooks per ACI and CRSI for all bars unless other hook dimensions are shown on the plans or details.

5. Reinforcement in footings, walls and beams shall be continuous. Lap bars a minimum of 36 diameters, unless noted otherwise.

6. Reinforcement shall be supported and secured against displacement in accordance with the Concrete Reinforcing Steel Institute's "Manual of Standard Practice."

7. Details of reinforcing steel fabrication and placement shall conform to ACI 315 'Details and Detailing of Concrete Reinforcement' and ACI 315R 'Manual of Engineering and Placing Drawings for Reinforced

Concrete Structures', unless otherwise indicated. 8. Spread reinforcing steel around small openings and sleeves in slabs and walls, where possible, and where bar spacing will not exceed 1.5 times the normal spacing. Discontinue bars at all large openings where necessary, and provide an area or reinforcement, equal to the interrupted reinforcement, in full length bars, distributing one-half each side of the opening. Where shrinkage and temperature reinforcement is interrupted, add (2) #5 x opening dimension +4'-0" on each side of the opening. Provide #5 x 4'-0" diagonal bars in both faces, at each corner of openings larger than 12" in any direction.

9. Provide standees for the support of top reinforcement for footings, pile caps, and mat foundations. 10. Provide individual high chairs, with support bars, as required for the support of top reinforcement for supported slabs. Do NOT provide standees.

11. Provide snap-on plastic space wheels to maintain required concrete cover for vertical wall reinforcement. 12. Where walls sit on column footings, provide dowels for the wall. Dowels shall be the same size and spacing as the vertical wall reinforcement, unless noted otherwise, with lab splices as shown on the application sections. Install dowels in the footing forms before concrete is placed. Do NOT stick

dowels into footings after concrete is placed. 13. Field bending of reinforcing steel is prohibited, unless noted on the drawings. 14. Minimum concrete cover over reinforcing steel shall be as follows, unless noted otherwise on plan, section or note:

MINIMUM COVER FOR REINFORCEMENT

	MINIMUM COVER		
SLABS AND JOISTS			
TOP & BOTTOM BARS FOR DRY CONDITIONS:			
#11 BARS & SMALLER	3/4"		
#14 & #18 BARS	1 1/2"		
FORMED CONCRETE SURFACES EXPOSED TO EARTH, WATER, AND OVER OR IN CONTACT WITH SEWAGE AND FOR BOTTOMS WORK MAT, OR SLABS SUPPORTING EARTH COVER:			
#5 BARS & SMALLER	1 1/2"		
#6 THROUGH #18 BARS	2"		
BEAMS & COLUMNS, FORMED			
FOR DRY CONDITIONS:			
STIRRUPS, SPIRALS & TIES	1 1/2"		
PRINCIPAL REINFORCEMENT	2"		
EXPOSED TO EARTH, WATER, SEWAGE, OR WEATHER:			
STIRRUPS & TIES	2"		
PRINCIPAL REINFORCEMENT	2 1/2"		
WALLS			
FOR DRY CONDITIONS:			
#11 BARS & SMALLER	3/4"		
#14 & #18 BARS	1 1/2"		
FORMED CONCRETE SURFACES EXPOSED TO EARTH, WATER, SEWAGE, WEATHER, OR IN CONTACT WITH GROUND	2"		
FOOTINGS & BASE SLABS			
AT FORMED SURFACES & BOTTOMS BEARING ON CONCRETE WORK MAT	2"		
AT UNFORMED SURFACES & BOTTOMS IN CONTACT WITH EARTH	3"		
TOP OF FOOTINGS	SAME AS SLABS		
OVER TOP OF PILES	2"		

STRUCTURAL STEEL NOTES

1. Structural steel construction shall conform to the American Institute of Steel Construction "Specification for Structural Steel Bulidings".

- 2. All structural wide flange members and channels shall be ASTM A992, Fy = 50 ksi. 3. All plates, bars, angles, and rods shall be ASTM A572, Grade 50 unless noted.
- 4. All rectangular, square, and round structural tube members shall be ASTM A500, Grade C, Fy = 50 ksi unless noted 5. Details for design, fabrication and erection of all structural steel shall be in accordance with the latest
- AISC Standards, unless otherwise noted or specified.
- 6. Provide temporary erection guying and bracing as required. 7. Unless otherwise shown or noted on the Drawings, provide 8" minimum bearing each end for all loose
- lintels and beams.
- 8. For loose lintels, masonry shelf angles and other such items generally not shown on the Structural Drawings, refer to the Architectural Drawings. See general notes on lintels this sheet for sizes, reinforcing, etc.
- 9. Steel columns below grade shall be encased in a minimum of 4" concrete or painted with 2 coats of asphaltum paint, unless otherwise shown.
- 10. Fabricate simple span beams not specifically noted to receive camber so that after erection, any minor
- camber due to rolling or shop assembly be upward.
- 11. Refer to the Division 5 Structural Steel Specification of the Project Manual for structural steel surface preparations and prime painting requirements.
- 12. The Erector shall shim between parallel roof beams and joists with differential mill and induced
- cambers for level deck bearing. 13. Provide cap plates/end plates to close off exposed, open ends of all tubular members, unless noted. Seal weld with partial penetration square groove welds for watertight condition.

STEEL CONNECTION NOTES

- 1. Typical beam-to-beam and beam-to-column connections shall be bearing type using A325 bolts, unless noted otherwise
- 2. Shop connections, unless otherwise shown, may be either bolted or welded. All field connections shall be bolted unless otherwise shown on the Structural Drawings. 3. Connections shall be designed by the Steel Fabricator to support the reactions shown on the framing
- plan(s). Simple span connections without reactions listed on the Structural Drawings shall be designed by the Steel Fabricator's SSE in accordance with Table 3-6 of the AISC "Manual of Steel Construction, 14th Edition". For composite beams where reactions are not indicated, design
- connections for 75% of the Maximum Total Uniform Load ASD value for the applicable beam size and span given in Table 3-6. For non-composite beams, design connections for 50% of the tabulated ASD value. The minimum shear connection design load shall be 15 kips. 4. Submit calculations for connections not detailed on the Structural Drawings and not covered by the
- AISC Tables, including but not limited to: A. Moment Connections.
- B. Bracing Connections including Collectors and Drag Struts Skewed Shear Connections.
- D. Girder and Truss Splices. Truss-to-Column and Truss-to-Truss Connections.
- F. Truss Web-to-Chord and Web-to-Gusset Connections.
- 5. All beam-to-beam connections shall be double angle, unless shown or noted otherwise. 6. All beam-to-column connections shall be at the column centerline, unless shown or noted otherwise. Shear tab connections to tube columns are permitted unless otherwise noted or detailed.
- 7. Typical bearing-type beam-to-beam, and beam-to-column field-bolted connections may be tightened to the snug-tight condition, unless otherwise shown or noted.
- 8. Bolted connections in moment frames, bracing connections, hangers and stub columns, crane connections, and those designated PT (pretensioned) on the Drawings shall be pretensioned joints
- utilizing tension-control (TC) bolts or direct tension indicators. Holes for bolts in pretensioned joints shall be 1/16" larger than the bolt diameter. All pretensioned joints must be inspected by the Testing Agency.
- 9. Connect bracing members for two components of stress unless otherwise approved by the SER. Provide a minimum 2-bolt or welded field connection.
- 10. Locate centerlines of all vertical bracing members on column centerlines in vertical plane and on column and beam centerlines in horizontal plane, unless otherwise shown on the Structural Drawings,
- 11. All welding shall be in conformance with AWS D1.1, using E70XX electrodes, unless shown or noted otherwise. Welding, both shop and field, shall be performed by welders certified for the weld types and positions involved according to the current edition of AWS D1.1. Perform all AESS welds with care to provide a clean, uniform appearance.
- 12. Backup bars required for welded connections shall be continuous.
- 13. Holes in steel shall be drilled or punched. All slotted holes shall be provided with smooth edges. Burning of holes in structural steel shall not be allowed without approval of the SER.
- 14. The minimum thickness of all connection material shall be 5/16", unless noted. 15. Continuous bent plate and angle slab closures, roof edges, diaphragm chords, etc. around perimeter of the floor and roof, as well as around openings shall be welded with a minimum 1/4" fillet weld x 3" long at 12" o.c., top & bottom, unless noted otherwise. Butt weld joints in continuous diaphragm chords for continuity.
- For continuous perimeter angles and bent plates perpendicular to and connected to the top chords of joists, provide a minimum 3" of 1/4" weld at each joist. Continuous angle and bent plate closures may be shopapplied to the supporting structural members only when requested and approved in writing by the SER.
- 16. A qualified independent Testing Agency shall be retained to perform inspection and testing of structural steel field weldments as follows:

WELD INSPECTION SCHEDULE

WELD TYPE	VT	MT	UT	PT	RT	COMMENTS
FILLET (SINGLE PASS)	25%					ROOT PASS AND FINISHED WELD
FILLET (MULTIPLE PASS)	50%	25%		-		
FLARE BEVEL/ FLARE V	25%					
GROOVE (PARTIAL PENETRATION)	100%		100%			REFERENCE NOTE 'E' BELOW
GROOVE (FULL PENETRATION)	100%		100%			ALL FULL PENE- TRATION WELDS

A) Test procedures VT = Visual Test (inspection)

- MT = Magnetic Particle Test: ASTM E109, cracks or incomplete fusion or penetration not acceptable.
- UT = Ultrasonic Test: ASTM E164. PT = Penetrant Test: ASTM E16
- RT = Radiographic Test: ASTM E94 and ASTM E142, min. quality level 2-21.
- B) Acceptance standards in AWS D1.1 shall be followed for each test procedure. C) Test procedures may be substituted to meet feasibility requirements of test based upon
- weld geometry or other factors with the approval of the SER. D) Samples shall occur at random locations; additional tests may be required at locations
- noted on the Drawings. E) Groove welds include square, bevel, V, U, and J grooves including single and double
- F) Partial penetration square groove welds at end seal plates of tubular members do not
- require inspection G) Weld Procedure Specifications (WPS) shall be produced and maintained in accordance with AWS D1.1. The independent Testing Agency shall have access to all WPS's during
- the course of testing and inspection. H) For highly-restrained welded joints, especially in thick plates and/or heavy structural shapes, detail the welds so that shrinkage occurs as much as possible in the direction the steel was rolled. Refer to the AISC Manual for preferred welded-joint arrangements that reduce the possibility for lamellar tearing. Members scheduled to receive highlyrestrained connections shall be tested by the independent Testing Agency by Ultrasonic
- Testing prior to commencing welding I) In addition to inspection requirements for fillet welds in Table above, 100% of field welding of diagonal bracing members to gusset plates shall be visually inspected (VT).

SPECIALTY STRUCTURAL ENGINEERING (SSE)

1. A Specialty Structurally Engineer (SSE) is defined as a Professional Engineer licensed in the State of Indiana, not the Structural Engineer of Record (SER), who performs Structural Engineering functions necessary for the structure to be completed and who has shown experience and/or training in the specific speciality.

- 2. It is the SSE's responsibility to review the Construction Drawings and Specifications to determine the appropriate scope of engineering.
- 3. It is the intent of the Drawings and Specifications to provide sufficient information for the SSE to perform his design and analysis. If the SSE determines there are details, features, or unanticipated
- project limits which conflict with the engineering requirements as described in the project documents, the SSE shall in a timely manner contact the SER for resolution of conflicts. 4. The SSE shall forward documents to the SER for review. Such documents shall bear the stamp of the SSE and include:
- A. Drawings introducing engineering input, such as defining the configuration or structural capacity of structural components and/or their assembly into structural systems. B. Calculations.
- C. Computer printouts which are an acceptable substitute for manual calculations provided they are accompanied by sufficient design assumptions and identified input and output information to permit their proper evaluation. Such information shall bear the stamp of the SSE as an indication that said SSE has accepted responsibility for the results.

5. Contractors are referred to the specific technical specification sections and the structural drawings for those elements requiring Specialty Structural Engineering. Examples of components requiring Specialty Structural Engineering include, but are not limited to the following: A. Temporary and Permanent Retention Systems, if required.

B. Shoring and Bracing Systems, if required. C. Structural Steel Connections.

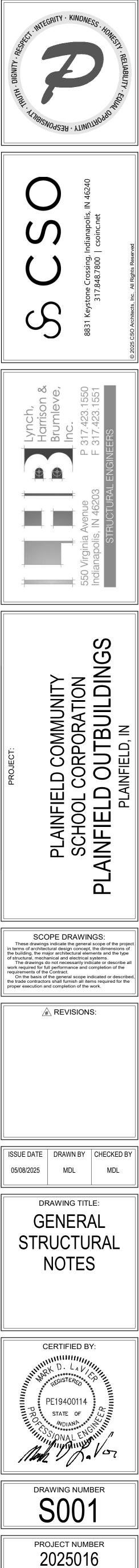
D. Prefabricated Wood Trusses. E. Steel Stairs.

F. Handrails and Guards. G. Cold-Formed Steel Framing.

H. Curtain Wall Systems.

6. When modifications are proposed to elements under the design and certification of the SSE, written authorization by the SSE must be obtained and submitted to the SER for review prior to performing the proposed modification.





TRENCH FOOTING SCHEDULE						
FTG.	FOOTING SIZE		FOOTING REINFORCING			
MARK	WIDTH	DEPTH	LONGITUDINAL	TRANSVERSE		
TF24	2'-0"	2'-0"	(2) #5 x CONTIN. T&B	#4 x 1'-6" @ 96" O.C. T&B		
NOTES: 1. CENTER FOOTINGS BENEATH WALLS, U.N.O. 2. REE \$401 FOR TYP, WALL FOOTING CONSTRUCTION JOINT DETAIL						

2. REF. S401 FOR TYP. WALL FOOTING CONSTRUCTION JOINT DETAIL. 3. LAP FOOTING REINF. A MIN. OF 30 BAR DIAMETERS. 4. PROVIDE BOTH TOP & BOTTOM REINF. AT ALL FOOTINGS.

DIAPHRAG	GM NAILING SC	CHEDULES	
RC	OF DIAPHRAG	M	
LOCATION	SIZE	SPACING	
BOUNDARY	8d	6"	
PANEL EDGE	8d	6"	
FIELD	8d	12"	
 1. 1-1/2" MINIMUM PENTRATION INTO FRAMING. 2. DIAPHRAGMS ARE UNBLOCKED, U.N.O. 3. ALL NAILS ARE COMMON NAILS, REF. SCHEDULE THIS SHEET FOR MIN. LENGTHS AND SHANK DIAMETERS. 			

DIMENSIONS OF COMMON NAILS					
PENNYWEIGHT	MIN. LENGTH, IN INCHES	Shank dia., in in.			
6d	2	0.113			
8d	2.5	0.131			
10d	3	0.148			
16d	3.5	0.162			
20d	4	0.192			
1. NAILS CALLED OUT IN PLAN, SECTION, DETAIL, OR SCHEDULE ARE ALWAYS COMMON NAILS. NAIL DIAMETER IS PER ESR-1539, NDS, AND THE TABLE ABOVE EXCEPT THAT NAIL LENGTH WILL ALWAYS BE 3" MINIMUM WHEN NAILING 2x FRAMING MEMBERS TOGETHER AND 3.5" WHEN NAILING LVL'S.					
2. FOR CONNECTIONS NOT SHOWN, REFER TO IBC TABLE 2304.9.1 FOR MINIMUM FASTENING REQUIREMENTS.					
3. FOR FASTENING OF MULTIPLE LVL PLIES, FOLLOW THE LVL MANUFACTURER'S REQUIREMENTS.					

4. FOR FASTENING OF SIMPSON AND OTHER HARDWARE, FOLLOW THE HARDWARE MANUFACTURER'S REQUIREMENTS. FILL ALL FASTENER HOLES WITH THE REQUIRED FASTENERS, U.N.O.

NAILS	

WOOD STRUCTURAL DATA

WOOD STRUCTURAL DATA
All interior non-load bearing or shear wall studs, top and bottom wall plates shall be #1 Spruce - Pine - Fir - Northern per N.L.G.A. or better:
Fb = 875 psi
Ft = 450 psi
Fv = 70 psi
Fc (PER) = 425 psi
Fc (PAR) = 1,150 psi
E = 1,400,000 psi
All exterior and shear wall studs, top and bottom wall plates shall be #1 Douglas Fir-Larch, or better:
Fb = 850 psi
Ft = 500 psi
Fv = 95 psi
Fc (PER) = 625 psi
Fc (PAR) = 1,400 psi
E = 1,400,000 psi
All rafters, ceiling joists, ridge and valley boards, headers and misc. blocking shall be #2 hem-fir, or better: (alternate: Douglas Fir-Larch, see table above).
Fb =1,000 psi
Ft = 575 psi
Fv = 75 psi
Fc (PER) = 375 psi
Fc (PAR) = 1,450 psi
E = 1,600,000 psi
All laminated veneer lumber (L.V.L.) shall be manufactured by Trus-Joist McMillan, Alpine Structures, Inc., Or Mitek Wood Products:
Fb =2,900 psi
Fv = 285 psi
E = 2,000,000 psi

A. Refer to specifications for additional information. B. Alternate grades and species may be proposed. Any substitutions must be approved in writing by

2.

NOTES:

- the architect/engineer.
- C. Allowable stresses for dimensional lumber listed above are for 2'-4" thick x 2" & wider. Size adjustment factors (Cf), repetitive member factor (Cr), duration of load factor (Cd), etc. have been applied in the design of structural elements.

WOOD FRAMING NOTES

- 1. For wood connections not specifically noted or detailed, follow the requirements of IBC 2006 Table 2304.9.1 or ESR 1539. 2. All nails are common nails unless noted otherwise. All nails shall be carefully driven and not
- overdriven. Submit all proposed fasteners for approval prior to construction. Installation of all fasteners shall meet the requirements of NDS and ISANTA guidelines, including those in ESR 1539, and Section 2303.6 of the IBC. 3. All nails are common nails unless noted otherwise. All nails shall be carefully driven and not
- overdriven. Submit all proposed fasteners for approval prior to construction. Installation of all fasteners shall meet the requirements of NDS and ISANTA guidelines, including those in ESR 1539, and Section 2303.6 of the IBC. 4. Wall plates are to be #1 or #2 Spruce-Pine-Fir (SPF) with stud spacing 16" o/c maximum.
- 5. Use double top plates on all walls, including non-load-bearing walls, with all splices and corners lapped. At "T" intersections do not lap top plate of intersecting wall cutting the top plate of the continuous wall, rather use a metal tie plate as described in the exception to Section 2308.9.2.1 of the IBC.
- 6. Coordinate final roof framing including joist or truss layout & truss member configuration with Mechanical, Electrical, & Plumbing (MEP) drawings. Obtain additional MEP information as needed for complete coordination. Keep all mechanical chases free of framing. Do not locate joists or trusses at parallel plumbing walls.
- 7. Design roof joists or trusses to support the weight of snow drifting where it applies, as well as rooftop mechanical units, exhaust fans, access hatches, etc. Confirm weights & locations before final design and show the loads for these units/fixtures on the sealed drawings. The Contractor shall ensure the units are installed at their design locations.
- 8. Where framing supported by a joist or truss can cause uplift on that joist or truss (such as at cantilevered balcony framing) the designer shall consider a load case that maximizes the uplift load in combination with no live load applied to the joist or truss supporting the uplift.
- 9. All hardware to be Simpson Strong Tie or approved equal. Where hardware is not specifically designated, submit proposed hardware for approval. Where more than one type of fastener or fastener pattern is allowed by the hardware manufacturer, hardware fasteners are to be of the type, size, and quantity to maximize the load capacity of the hardware in the specific application shown on these plans, unless noted otherwise.
- 10. Reference the Architectural Plans for layout of all walls, openings, wall types, etc. Verify all dimensions prior to design of wall panels & immediately notify the Architect and Engineer of any discrepancies.
- 11. Where a Specialty Structural Engineer (SSE) designs framing (such as trusses), the roof designer shall provide the Wall Panel Designer the loads/reactions and locations of all girder or beam bearing points. The Wall Panel Designer shall specify and the Wall Panel Manufacturer shall install sufficient columns/studs to support all such loads from the girder or beam bearing location down to the supporting foundation or podium framing. The Contractor shall ensure the presence of such columns/studs. Similarly, where walls are field-framed, the Framing Contractor shall install the columns/studs for support of girders and beams. As a minimum, the number of studs shown on the plans shall be used, with a minimum of (2) 2x6 or (3) 2x4 studs.

PREFABRICATED WOOD TRUSSES

1.	Wood trusses shall be designed by the manufacture			
	A. Roof Trusses			
	Top chord loading:			
	Live (snow) load : 20 psf + drift loads			
		Dead loads : 12 psf		

- Additional 5 psf at overbuild framing areas Bottom chord loading:
- Attic live load : 10 psf Dead load : 8 psf
- Wood trusses shall be designed by the manufacturer in accordance with the applicable provisions of the latest edition of the National Design Specification of the National Forest Products Association. The
- Wood Truss Council of America (WTCA) and the Indiana Building Code, 2008. 3. Wood materials shall be Southern Pine, or Douglas Fir-Larch and shall be kiln-dried and used at 19% maximum moisture content. Provide grade no. 2, or as required to satisfy stress requirements.
- 4. Connector plates shall be not less than 0.036 inches (20 gauge) in coated thickness, shall meet or exceed ASTM Grade A or higher and shall be hot-dipped galvanized according to ASTM A-653 (coating G60). Minimum steel yield stress shall be 33,999 psi.
- 5. Trusses shall be fabricated in a properly-equipped manufacturing facility of a permanent nature. Trusses shall be manufacture by experienced workmen, using precision cutting, jigging and pressing equipment under the requirements in quality control standard QST-88 of the Truss Plate Institute.
- 6. Secondary bending stresses in truss top and bottom chords due to dead, live, and wind loads shall be considered in the design. Load duration factors shall be per the "National Design Specification for Wood Construction." 7. All top and bottom chords shall be a minimum of 2x6, with the exception of valley overbuild trusses, cap
- trusses, and non-spanning gable-end trusses, unless approved by the Structural Engineer of Record. 8. All girder trusses supporting other trusses of 2x framing members shall be a MINIMUM of 2-plies, unless otherwise approved. Refer to the Mfr's Truss Design Drawing for girder ply-to-ply connection requirements. Attach framing members or loads only after all girder plies are in place and properly
- BCSI-B9 "Multi-Ply Girders" as published by WTCA and TPI for additional information. 9. Truss-to-girder connection information shall be on the Mfr's Truss Design Drawing of the carried-truss, girder truss, or the Mfr's Truss Placement Drawing. Unless otherwise approved, all joist hangers, strapping, ties, etc. shall be as manufactured by the Simpson Strong Tie Company.
- 10. Unless otherwise shown or noted, ALL truss bearings shall be anchored using a mechanical fastener. As a minimum, provide H-1 wind/seismic anchors as manufactured by the Simpson Strong Tie Company. 11. Wood trusses shall be erected in accordance with the truss manufacturer's requirements. This work
- shall be done by a qualified and experienced contractor. Truss erection by an inexperienced or nonqualified contractor can result in construction collapse and/or serious injury damage. 12. The contractor shall provide all temporary and permanent bracing as required for safe erection and performance of the trusses. The guidelines set forth by the following joint publications of the Truss Plate Institute (TPI) and Wood Truss Council of America (WTCA) shall be adhered to unless otherwise
- noted in the Contract Documents: BCSI-B1 GUIDE FOR HANDLING, INSTALLING AND BRACING OF METAL PLATE CONNECTED WOOD TRUSSES. BCSI-B2 TRUSS INSTALLATION AND TEMPORARY BRACING.
- BCSI-B3 WEB MEMBER PERMANENT BRACING/WEB REINFORCEMENT BCSI-B4 CONSTRUCTION LOADING
- BCSI-B5 TRUSS DAMAGE, JOBSITE MODIFICATIONS AND INSTALLATION ERRORS BCSI-B6 GABLE END FRAME BRACING
- BCSI-B7 TEMPORARY AND PERMANENT BRACING FOR PARALLEL CHORD TRUSSES BCSI-B8 TOE-NAILING FOR UPLIFT REACTIONS
- BCSI-B9 MULTI-PLY GIRDERS BCSI-B10 POST FRAME TRUSS INSTALLATION AND BRACING
- BCSI-B11 FALL PROTECTION AND WOOD TRUSSES 13. Unless otherwise shown or noted, permanent bracing shall consist of 2x4 stress-graded members
- spanning a minimum of four trusses and nailed at each intersection with a minimum of (2) 16d nails. Lap continuous bracing a minimum of 2'-0" (2 trusses). 14. Refer to Mfr's Truss Design Drawing for web members requiring web member permanent bracing/web
- reinforcement. Continuous lateral bracing must ALWAYS be diagonally braced for rigidity. 15. Refer to the Truss Bracing Schematics, and the structural framing plan and sections for permanent bracing requirements. Wherever possible, the temporary erection bracing as described in BCSI-B2
- shall be left in place to function as permanent bracing. 16. Trusses which are too tall for delivery to the jobsite in one piece may be manufactured in two or more sections and "piggybacked" at the jobsite. The contractor MUST install temporary and permanent bracing for the lower supporting trusses as shown on the Mfr's Truss Design Drawing and/or the Contract Documents BEFORE installing the cap trusses. Provide 2x4 sleepers laid flat on the top chord of the supporting trusses, spaced at 24" on center and nailed to the top chord with a minimum of (2) 16d nails.
- 17. Truss members and components shall not be cut, notched, drilled nor otherwise altered in any way without the written approval of the Truss Mfr's Engineer (See Specialty Structural Engineer notes).
- 18. Submit complete shop drawings for all wood trusses showing member sizes, species, grade, moisture content, span, camber, dimensions, chord pitch, bracing requirements and loading. Shop drawings shall be submitted to the Engineer and shall bear the seal of a Professional Engineer registered in Indiana.

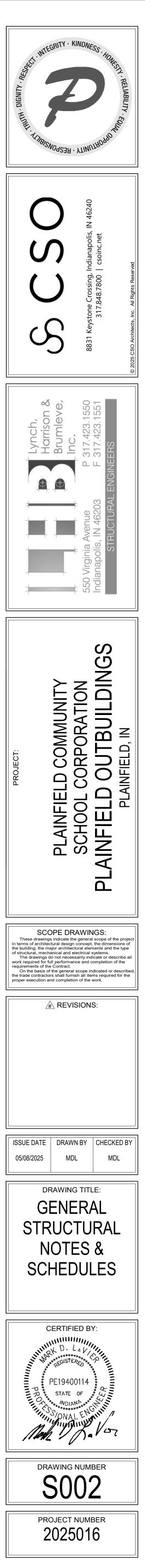
WOOD PANEL/SHEATHING NOTES

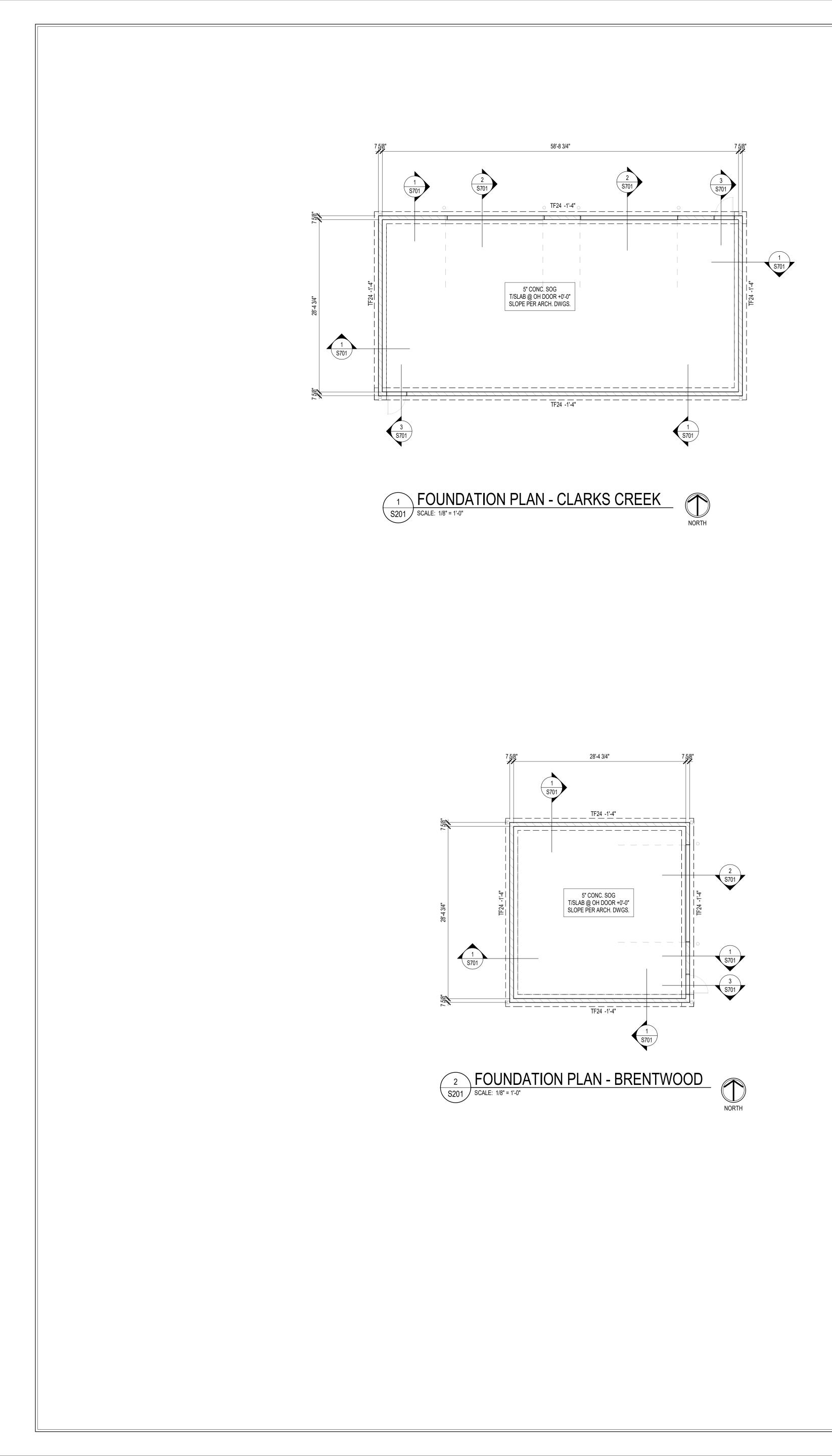
- 1. All plywood construction shall be in accordance with the American Plywood Association (APA) specification. 2. All roof panel sheathing shall be 5/8" (nom.), APA-rated sheathing. Suitable edge support shall be provided by use of panel clips or blocking between framing unless otherwise noted. Fasten roof sheathing with 8d common nails spaced 6" o.c. at supported edges and 12" o.c. at
- intermediate supports. 3. The use of heavily loaded drywall carts or similar conveyances to transport building materials and/or debris can exceed the APA PS2 concentrated load test standard capacity. In areas subject to cart traffic, the contractor shall place a temporary second layer of 23/32" dry wood structural panel to help avoid failures of the floor panels. Refer to APA Technical Note TT-024, February 2008.
- 4. Unless otherwise noted or shown, install plywood sheathing with the long dimension of the panel across supports and with panel continuous over two or more spans. Stagger panel end joints. Allow 1/8" spacing at panel ends and edges unless otherwise recommended by the sheathing manufacturer.
- 5. All nailing shall be carefully driven and not overdriven. The use of staples and pneumatic nail guns are prohibited from use unless approved. Submit proposed staples and/or pneumatic fasteners for approval prior to construction.
- 6. Provide 2X blocking at unsupported panel edges as follows: Roofs and floors - only where indicated on plan Walls - per the shearwall schedule

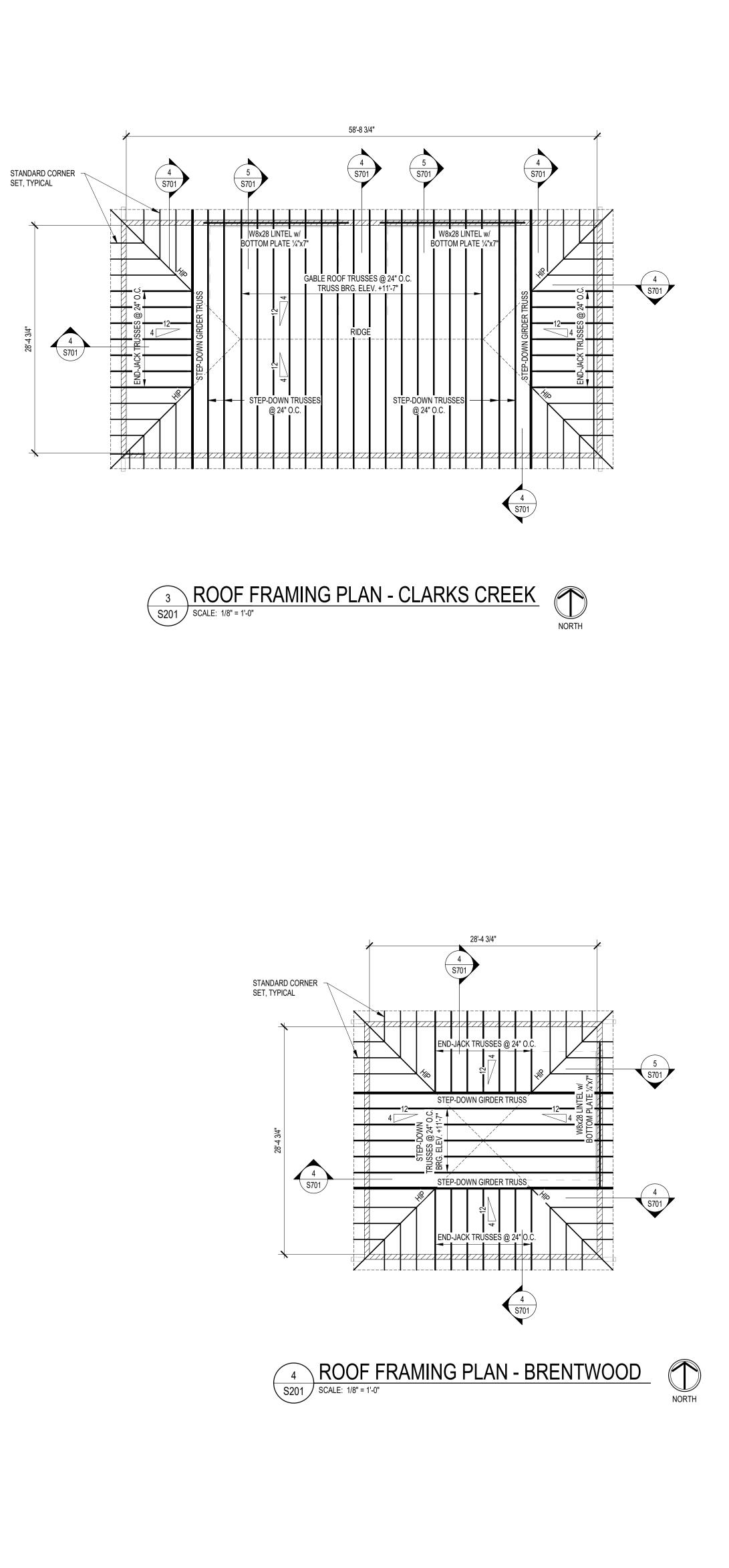
urer to support the following loads:

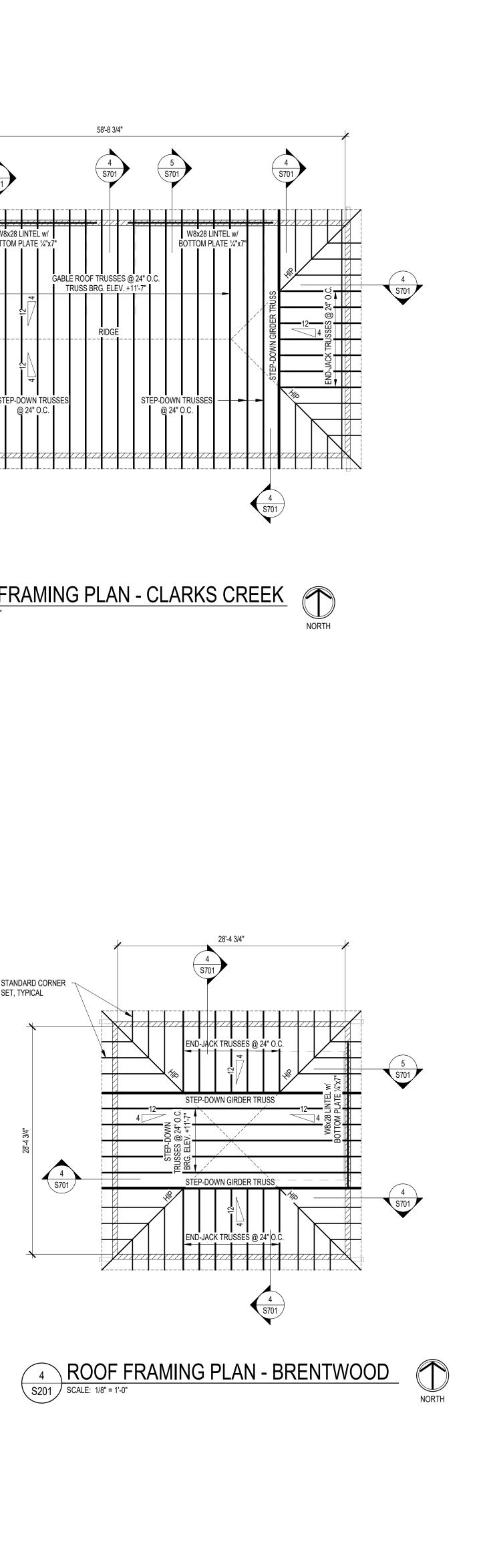
design specification for the metal plate connected wood trusses of the Truss Plate Institute (TPI). fastened together, and the girder truss is properly braced to prevent lateral displacement. Refer to

		AE	BREVIATION LEGEND		
ABBR	DEFINITION	ABBR	DEFINITION	ABBR	DEFINITION
AB	ANCHOR BOLT	GA	GAGE (GAUGE)	PAF	POWDER-ACTUATED FASTENER
ABV	ABOVE	GALV	GALVANIZED	PARTN	PARTITION
ACI ACIP	AMERICAN CONCRETE INSTITUTE AUGERED CAST IN PLACE PILE	GB GC	GRADE BEAM GENERAL CONTRACTOR	PC PCF	PRECAST CONCRETE POUNDS PER CUBIC FOOT
ADDL	ADDITIONAL	GLULAM	GLUE LAMINATED WOOD	PCI	PRECAST CONCRETE INSTITUTE
ADDM ADJ	ADDENDUM ADJUSTABLE	GRAN GWB	GRANULAR GYPSUM WALL BOARD	PDF PERIM	POWER-DRIVEN FASTENER PERIMETER
AESS				PL	PLATE
AFF AGG	ABOVE FINISHED FLOOR AGGREGATE	н	HIGH (HEIGHT)	PLBG PLF	PLUMBING POUNDS PER LINEAL FOOT
AISC	AMERICAN INSTITUTE OF STEEL CONSTR'N.	HAS HC	HEADED ANCHOR STUD HOLLOW CORE	PLYWD	PLYWOOD
AISI ALT	AMERICAN IRON & STEEL INSTITUTE ALTERNATE	HD	HOLD DOWN	PNL PREFAB	PANEL PREFABRICATED
ANCH		HK	HOOK	PROJ	
ANSI APA	AMERICAN NATIONAL STANDARDS INSTITUTE AMERICAN PLYWOOD ASSOCIATION	HORIZ	HORIZONTAL HIGH POINT	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH
APPROX ARCH	APPROXIMATE ARCHITECT(URAL)			PSL PPT	PARALLEL STRAND LUMBER PRESSURE PRESERVATIVE TREATED
ASSY	ASSEMBLY	IBC	INTERNATIONAL (INDIANA) BUILDING CODE	PSC	PRESTRESSED CONCRETE
ASTM AVG	AMERICAN SOCIETY FOR TESTING & MATLS. AVERAGE	ID IF		PT PTD	POST TENSIONED PAINTED
AWS	AMERICAN WELDING SOCIETY		INSIDE FACE INCREASE	PRTN	PARTITION
		INFO		PVMT	PAVEMENT
B/'X'	BOTTOM OF REFERENCED ITEM	INDOT INSUL	INDIANA DEPARTMENT OF TRANSPORTATION INSULATE (INSULATION)		
BB BFF	BOND BEAM BELOW FINISHED FLOOR	INT INV	INTERIOR INVERT	QTR QTY	QUARTER QUANTITY
BLDG	BUILDING	INV	INVER I ISOLATION		
BLKG BLW	BLOCKING BELOW	IT	INVERTED TEE BEAM	R	RADIUS
BM	BEAM			RB	RECTANGULAR BEAM (PRECAST)
BOT BP	BOTTOM BASE PLATE	JBE JST	JOIST BEARING ELEVATION JOIST	REF REQD	REFER TO (REFERENCE) REQUIRED
BRDG	BRIDGING	JSI	JOINT	REV	REVISION (REVISED)
BRG BS	BEARING BOTH SIDES			RF RO	ROOF ROUGH OPENING
BTWN	BETWEEN	KIP	1,000 POUNDS	RTU	ROOF TOP UNIT
		KO KSF	KNOCK OUT KIPS PER SQUARE FOOT	RTN RW	RETURN RETAINING WALL
C/C	CENTER TO CENTER	KSI	KIPS PER SQUARE INCH		
CAIS CAPY	CAISSON			SBCA	STRUCTURAL BUILDING COMPONENTS ASSN
CANT	CANTILEVER	L	LONG (LENGTH)	SCT	STRUCTURAL CLAY TILE
CB CC	CONCRETE BEAM CONCRETE COLUMN	Ld	TENSION DEVELOPMENT LENGTH	SCHED SDI	SCHEDULE STEEL DECK INSTITUTE
CFS	COLD-FORMED STEEL	LB LBS	L'BEAM POUNDS	SE	SLAB EDGE
CIP CJ	CAST IN PLACE CONTROL JOINT	LGSF LL	LIGHT GAUGE STEEL FRAMING	SER SECT	STRUCTURAL ENGINEER OF RECORD
CNJ	CONSTRUCTION JOINT		LONG-LEG HORIZONTAL	SHT	SHEET
CL CLR	CENTERLINE CLEAR(ANCE)	LLO LLV	LONG-LEG OUTSTANDING LONG-LEG VERTICAL	SIM SJI	SIMILAR STEEL JOIST INSTITUTE
CMU	CONCRETE MASONRY UNIT	LLV	LINTEL	SL	SLOPE
COL COLL	COLUMN COLLATERAL	LONG LP	LONGITUDINAL LOW POINT	SOG SPA	SLAB ON GRADE
CONC	CONCRETE	LP	LOW POINT LAMINATED VENEER LUMBER	SPA SPECS	SPACE (S)(D)(ING) SPECIFICATIONS
CONSTR	CONSTRUCTION CONTINUOUS	LW LWC	LONG WAY	SQ SS	SQUARE STAINLESS STEEL
CRSI	CONCRETE REINFORCING STEEL INSTITUTE			SSE	SPECIALTY STRUCTURAL ENGINEER
CTR CTRD	CENTER CENTERED	MATL	MATERIAL	STD STIFF	STANDARD STIFFENER
CW	CONCRETE WALL	MAX	MAXIMUM	STL	STEEL
		MC MECH	MOMENT CONNECTION MECHANICAL	STR STRUCT	STRENGTH STRUCTURAL
D	DEEP (DEPTH)	MEZZ	MEZZANINE	SW	SHORT WAY
DBA DEG	DEFORMED BAR ANCHOR DEGREE	MFR	MANUFACTURER MINIMUM	SW SYMM	SHEAR WALL (OCCASIONAL) SYMMETRICAL
DIA	DIAMETER	MISC	MISCELLANEOUS		
DIAG DIM	DIAGONAL DIMENSION	MO MOM	MASONRY OPENING MOMENT	T/'X'	TOP OF REFERENCED ITEM
DL	DEAD LOAD	MTL	METAL	T&B	TOP AND BOTTOM
DN DP	DOWN DRILLED PIER			T&G TB	TONGUE & GROOVE TIE BEAM
DT	DOUBLE TEE	NDS	NATIONAL DESIGN SPEC'N. FOR WOOD	TD	TRENCH DRAIN
DTL DWG	DETAIL DRAWING	NIC NO	NOT IN CONTRACT NUMBER	TEMP TF	TEMPERATURE TRENCH FOOTING
DWL	DOWEL	NOM	NOMINAL	ТНК	THICK(NESS)
_		NRC NS	NOISE REDUCTION COEFFICIENT NEAR SIDE	TOPG TPI	TOPPING TRUSS PLATE INSTITUTE
EA	EACH	NTS	NOT TO SCALE	TRANSV	TRANSVERSE
ECC EF	ECCENTRIC EACH FACE	NWC	NORMAL WEIGHT CONCRETE	TYP	TYPICAL
EIFS	EXTERIOR INSULATION & FINISH SYSTEM	A 17			
EJ EL	EXPANSION JOINT ELEVATION	0/0 0A	OUT TO OUT OVERALL	UNO UNEXC	UNLESS NOTED OTHERWISE UNEXCAVATED
ELEC	ELECTRICAL	OC	ON CENTER		
ELEV ENG	ELEVATOR ENGINEER	OD OF	OUTSIDE DIAMETER OUTSIDE FACE	VERT	VERTICAL
EQ	EQUAL	ОН	OPPOSITE HAND		
EQ SPA EQUIV	EQUALLY SPACED (EQUAL SPACING) EQUIVALENT	OPNG OPP	OPENING OPPOSITE	W	WIDE (WIDTH)
ES	EACH SIDE	OSB	ORIENTED STRAND BOARD	W/	WITH
EW EX	EACH WAY EXISTING			WD WF	WOOD WALL FOOTING
EXC	EXCAVATE (EXCAVATION)			WP	WORKING POINT
EXT	EXTERIOR			WPS WRDA	WELD PROCEDURE SPECIFICATION WATER REDUCING ADMIXTURE
				WTCA	WOOD TRUSS COUNCIL OF AMERICA
FABR FD	FABRICATE (FABRICATOR) FLOOR DRAIN			WWF	WELDED WIRE FABRIC
FDN	FOUNDATION				
FIN FF	FINISH FINISHED FLOOR				
FLG	FLANGE				
FS FT	FAR SIDE FOOT (FEET)				
FTG	FOOTING				
FV	FIELD VERIFY			1	

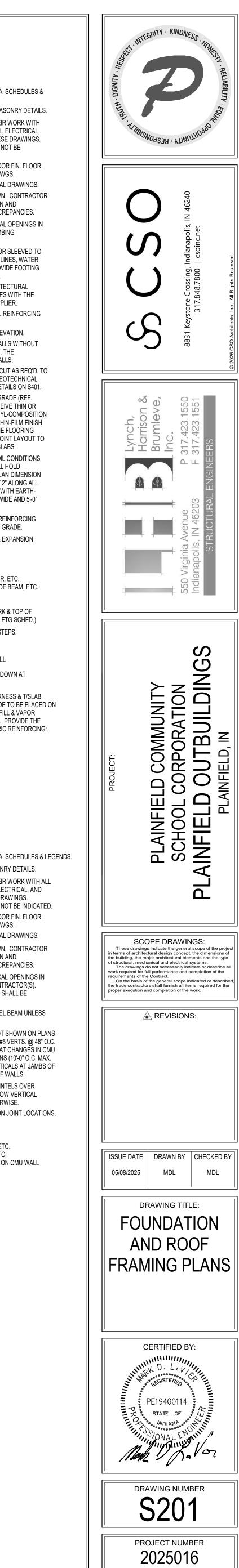


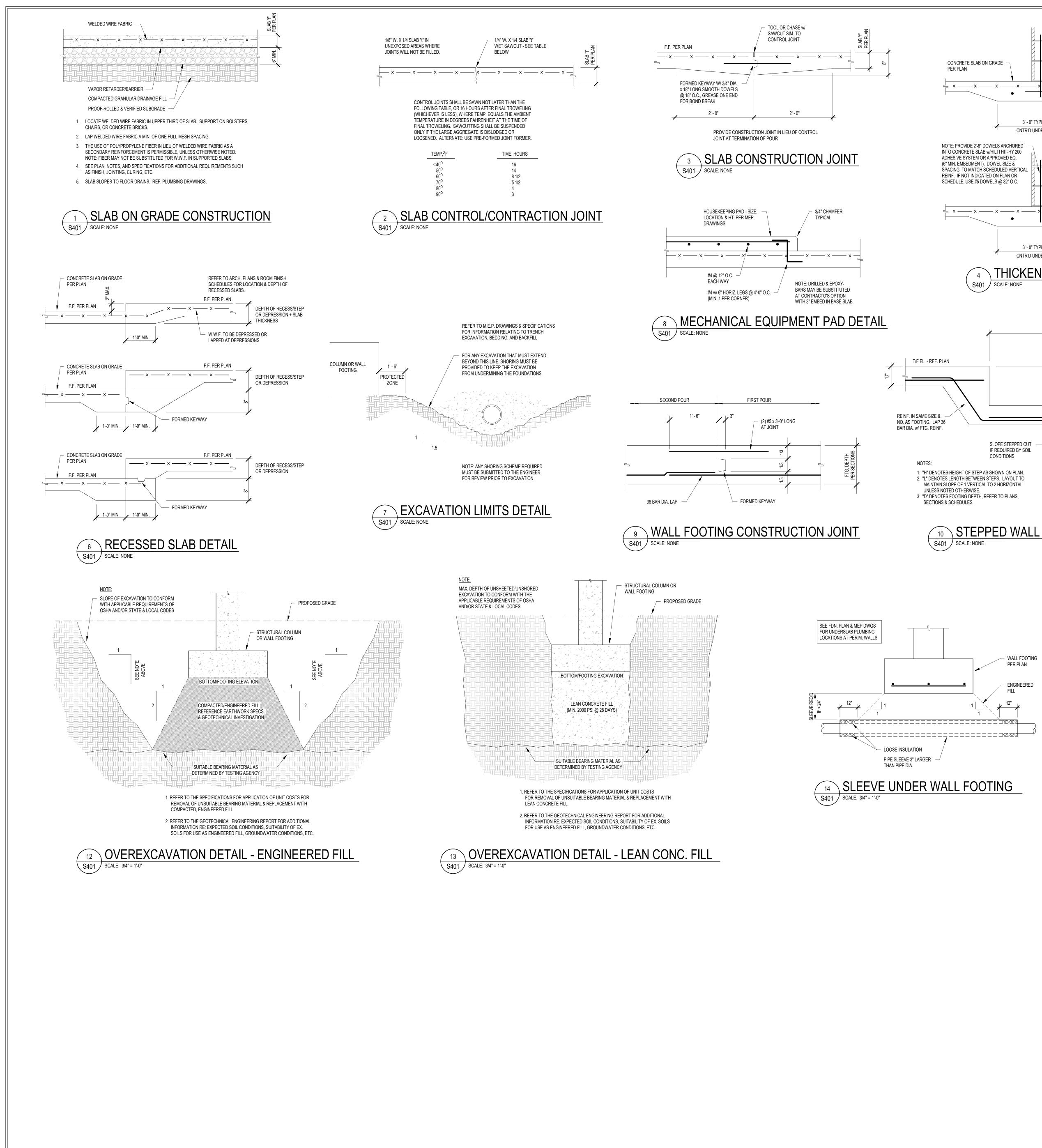


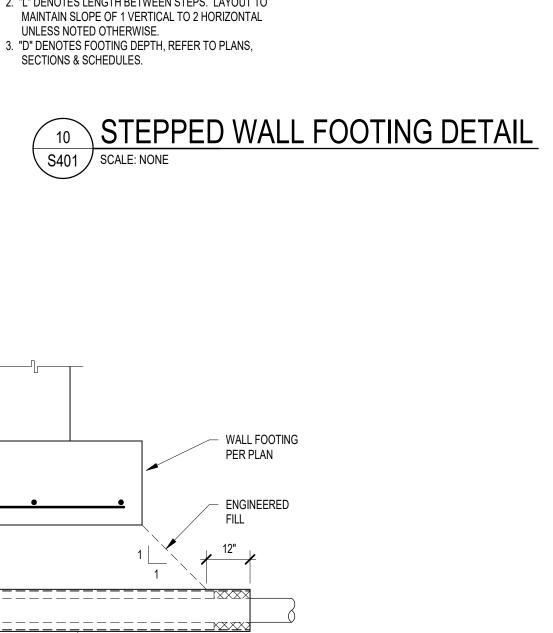


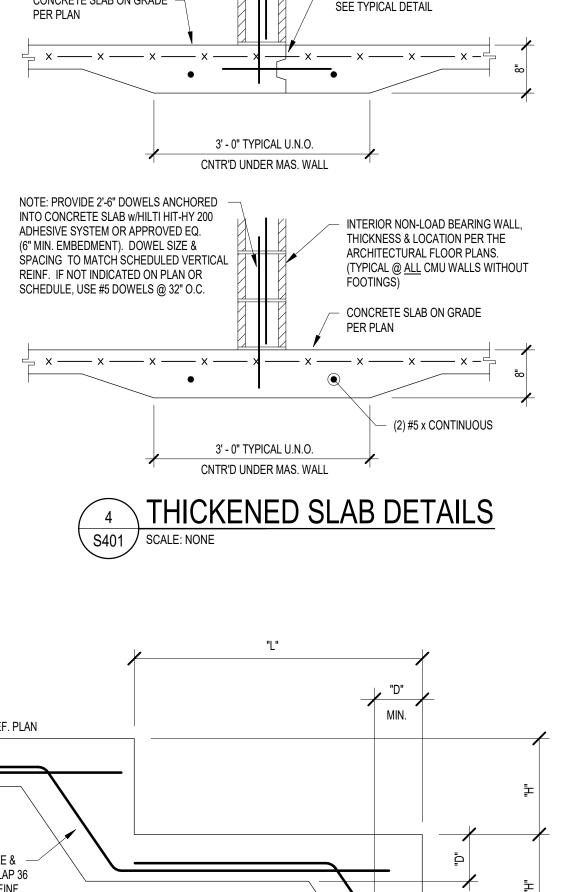


LEGENS. REF. THE SAID SERIES FOR TYPICAL FOUNDATION AND MAX ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR ALL DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL ALL DENTRACTORS ARE RECEIVED FORO THE FIRST FUC EXPERTORE, ALL REQUIRED MATERIALS AND WORK MAY N NINCATED. ALL ELEVATIONS ARE REFERENCED FORON THE FIRST FUC ELEVATION 40-0'. VERIFY USGS ELEVATION WITH CIVIL DW ALL WALLS SHALL BE LAD OUT FROM THE ARCHITECTURAL REF. ARCH. DRAWINGS, FOR ALL DIMENSIONS NOT SHOWN MINL VALUE MENT ALL DIMENSIONS PROR TO CONSTRUCTION MINEDATELY NOTIFY ARCHITECTENGINGER OF ANY DISC. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL ELEVATIONS. (DORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL ELEVATIONS. (DORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL ELEVATIONS. (DORDINATE EXACT SIZE & LOCATED PER THE ACCHITE ONWINGS. COORDINATE DEPTHS OF ALL SLAP RECESSES ARCHITECTURAL DRAWINGS ANDOR THE FLOORING SUPPI DAWINGS. COORDINATE DEPTHS OF ALL SLAP RECESSES ARCHITECTURAL DRAWINGS ANDOR THE FLOORING SUPPI COORDINATE REINFORCING DUBLES FOR CLUW VERTICAL F WITH REINF. NOTED ON PLANS & SECTIONS. (EQUITAL DEARMINGS ANDOR THE FLOORING SUPPI DAWINGS. COORDINATE DEPTHS OF ALL SLAP RECESSES SMALL BEAR ON APPROVED SOLL UNDERCH PROVIDE ONTROLODING TACHONS. (SOLODELS OF CAULY DUST DUST SUPPICAL EXACT DRAWINGS ANDIA ALL DURING TAMAUAL PODTINGS SEE SAUF FOR THE VICICAL FOOLING. SUPPICE PROVIDE ONTROLODING TACHONS. (ALL SLAP RECESSES SHALL BEAR ON APPROVED SOLL UNDERCH PROVIDE ONTROLODING SHOLES FOR CULVERTILE. (MUTH DIT CLEARED SHALL BEAR ON APPROVED SOLL UNDERCH PROVIDE ONTROLODING AND SPECTS DAY OR SUBLE THE FLOORING SHALL BEAR ON APPROVED SOLL UNDERCH PROVIDE ONTROLODING TACHON SOLID BEING THE CONTING AREA (STITLE SAMO RESPORT TO CONSTULATION UNAL FLOORING SHALL BEAR ON APPROVED SOLL UNDERCH PROVIDE ONEL DEVENTION ON THE SCHOLE ON THE STREET FOOLODING THE SHALL DEVENTION AND ADDRIVES THE PLOORING CONTING AREA (STITLE SAMO RESPORT TO CONSTULATION UNAL PLOORING SHALL BEAR ON APPROVED SOLL UNDERGY PROVIDE ONEL DAY AND APPROVED SOLL UNDERGY PROV	2.3. 4.5.6.7.8. 9.10.11.2.14.15. 16. 17.18.19. II. 19. III. 19. IIII. 19	GENDS. GENDS. F. THE S400 L CONTRAC L DISCIPLIN ID PLUMBIN IEREFORE, . DICATED. L ELEVATIO EVATION +C L WALLS SF F. ARCH. DI MEDIATELY ORDINATE IN. WALLS V ONTRACTOF DIE: PERIM SS BELOW VES, ETC.) S EPS AS REC L SLAB REC AWINGS. C CONDINATE TH REINF. N ROUT ALL C ORDINATE TH ROUT ALL C TH ROUT ALL C ORDINATE TH REINF. N ROUT ALL C ORDINATE TH ROUT ALL C ORDINATE TH ROUT ALL C TH ROUT ALL C ORDINATE TH ROUT ALL C TH ROUT ALL C TH ROUT ALL C TH ROUT ALL C TH ROUT	O SERIES F CTORS ARE IES TO AVO IG ASPECT ALL REQU INS ARE R O'-0". VERII HALL BE LA RAWINGS. (ALL DIME NOTIFY AL EXACT SIZ WITH THE N REINFORC ORES OF C CHENED SI EES SHOURD ON ORES OF C CHENED SI EES SHOURD ON ON SHOURD ON ON SHOURD ON ON SHOURD ON ON SHOULD ON ON ON SHOULD ON ON ON SHOULD ON ON ON ON ON ON ON ON ON ON	FOR TYPE E REQUINED FOR THE E REQUINED FOR ALL SARE IRED M. EFERENT FY USG ALL DEFINITION TO ALL SARE ALL SALE SALE SALE SALE SALE SALE SALE S	PICAL FC IRED TC NFLICTS NOT IN T ATERIAL NCED FF S ELEV/ FROM ELDIMEI S PRIOR CT/ENG DCATION NICAL, E S CT/ENG DCATION NICAL, E S CT/ENG DCATION NICAL, E S CT/ENG DCATION NICAL, E S CT/ENG DCATION NICAL, E S CT/ENG DCATION NICAL, E CLOCATI DTHS OF ND/OR T DOWELS F S & SECT DLD BEL DER ALL CKENED OR LOC/ N APPRC AS DETE AL FOOT TOR SHA COORS, EF LY COOI TOR SHA COORS, EF LY COOI TOR SHA COORS, EF COOS, EF	DUNDAT DOUNDAT DOUNDAT DOUNDAT DOUNDAT DOUNDAT DOUNDAT DOUNDAT DOUNDAT COORD ATION W THE ARC NSIONS TO CON INEER C OF ALL COF	ION AND M DINATE THI IECHANICA DPE OF THI WORK MAY E FIRST FLG (ITH CIVIL E CHITECTUF NOT SHOV OF ANY DIS MECHANIC CAL & PLUI ERED AND/ Y & STORM /INGS. PRC CAL & PLUI ERED AND/ Y & STORM OF CMU W OF CMU W O	AS EIR L, IS CONTRACT OF A CON
ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR ALL DISCPERNES TO AVOID CONFLICTS. THE INCERDENT ALL RECENTER TO THE INSECTION ALL SELVATIONS ARE REFERENCED FROM THE FIRST FLOC ELVATIONS ARE REFERENCED FROM THE FIRST FLOC ELVATIONS ARE REFERENCED FROM THE CHARA REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN ALL WALLS SHALL BE LAD OUT FROM THE ARCHITECTURAL REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN MALL YEARY ALL DIMENSIONS SHORT TO CONSTRUCTION MINDLATELY NOTIFY PARCHITECTENSINGER OF ANY DISC COORDINATE ERCATS 252. ELCATON OF ALL MECHANICAL EDEMNETER FOOTINGS SHALL BE LOWERED AND/OF PASS BELOW PLUMISING INES (E.G., SAMTARY & STORM L UNES, ETC.) SHOWN ON THE FUNCAL DETAILS ON SHOL. UNES, ETC.) SHOWN ON THE FUNDING DRAWINGS. PROV STEPS AS REQUIRED PER THE TYPICAL DETAILS ON SHOL. UNES, ETC.) SHOWN ON THE INCOMT E UNDER ALL SHAR RECESSES ARCHITECTURAL DRAWINGS AND/OR THE FLOORNIG SUPP GOORDINATE REINFORCING DUMELS FOR CMU VERTICAL F WITH REINF. NOTED ON FLANS & SECTIONS. GOODINATE REINFORCING SUPP COORDINATE REINFORCING SUPPL COORDINATE READ DAY THE FLOORNES SUBARD HEARMING AND READ ALL SOLVED SOLL UNDERCEL PROVIDE CONTROLONING SUD BELOW FIN. FLOOR ETC FUTCIOLONING SHALL BEAR ON APPROVED SOLL UNDERCEL PROVIDE CONTROLONING SOLVED SOLL UNDERCEL PROVIDE CONTROLONING SOLVED SOLL UNDERCEL PROVIDE CONTROLONING SOLVED SOLUTION MULTICETTROLONING SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED THE REFORENCE PROVIDE SOLVED SOLVED SOLVED SOLVED THE SOLVED SOLVED SOLVED SOLVED SOLVED SOLVED SUBARD SOLVED SOLVED SOLVED SOLVED SOLVED SUBARD SOLVED SOLVED SOLVED SOLVED SOLVED SUBARD SOLV	3. A. A. A. THIN ALE ALRESHIN CODO NORMALIST ALDER CON GENERAL STEPTYTHTELCOR EXPENSION OF THE CONTRACT STATES IN CONCEPTION OF THE CONTRACT STATES INTERPONDED STATES INTERPONDED STATES	L CONTRAC L DISCIPLIN ID PLUMBIN IEREFORE, J DICATED. L ELEVATION EVATION +(L WALLS SF EF. ARCH. DI IALL VERIFY MEDIATELY DORDINATE N. WALLS V DORDINATE N. WALLS V DORDINATE N. WALLS V DORDINATE N. WALLS V DORDINATE N. WALLS V DORDINATE SS BELOW VES, ETC.) S EPS AS REC CAVINGS. C CAVINGS. C CAVINGS. C CAVINGS. C CAVINGS. C CAVINGS. C CAVINGS. C CAVINGS. C CAVINGS. C CONTRACTOF DORDINATE TH REINF. N COUT ALL C COVIDE THIC DORDINATE TH REINF. N COUT ALL C COVIDE THIC DORDINATE TH REINF. N COUT ALL C COVIDE THIC DORDING S CONTRACTOF CONTINGS. S CONTRACTOF CONTINGS. S CONTRACTOF CONTING (I.E. CONTRACTOF CONTING (I.E. CONTRACTOF CONTRACTOF CONTRACTOF CONTRACTOF CONTRACTOF CONTRACTOF CONTRACTOF CONTRACTOF CONTRACTOF CONTRACTOF CONTING CONTRACTOF CONTING CON	CTORS ARE IES TO AVG IG ASPECT ALL REQU INS ARE R 1'-0". VERII IALL BE LA RAWINGS. (ALL DIME NOTIFY AI EXACT SIZ VITH THE N RESSES SH COORDINA REINFORG VOTED ON ORES OF (CKENED SI ED FOOTIN ALL BE CA RRAZZO, (VINYL SHI IALL BE CA RRAZZO, (VINYL SHI IALL BE CA ITROL/CON ALL BE CA RRAZZO, (VINYL SHI IALL BE CA CONGINEER F ED FOOTIN VIRE FAB CONS. CONS. CONS. CONS.	E REQU OID COI IS ARE IRED M. EFEREI FY USG AID OUT FOR AI STORE ALL FY USG AID OUT FOR AI STORE ALL FOR AI STORE ALL FOR AI CINGS A CLINES THE DEP INGS A	JIRED TC NFLICTS NOT IN T ATERIAL NCED FF S ELEV/ FROM T LL DIMEI S PRIOR CT/ENG DCATION NICAL, E S HALL E C (E.G., S LUMBINI TYPICAL E LOCATI DTHS OF ND/OR T OWELS F S & SECT DLID BEL DER ALL CKENED OR LOC/ N APPRC AS DETE AL FOOT TION JOI L JOINT: COR S (COR N APPRC AS DETE AL FOOT TO S H/ CODS, EF LY COOL TO S H/ CODS, EF LY COOL TO S H/ CONST S MUST ACCURA FOOTIN SHALL BE (LENE FIN FOR MAS TES FIN. TES SLA ROL/CON TES SLA ROL/CON TES SLA	COORE THE M THE SCC S AND V ROM THE ATION W THE ARC NSIONS TO CON INEER C OF ALL ELECTRIC BE LOWE ANITARY G DRAW L DETAIL ED PER ANITARY G DRAW L DETAIL ED PER ANITARY G DRAW L DETAIL ED PER ANITARY G DRAW L DETAIL SLAB D ATIONS OVED SO ERMINEL TING UNI S IN SLA DOVED SO ERMINEL S IN SLA DOVED SO S IN SLA S I	DINATE THI IECHANICA DPE OF THI WORK MAY E FIRST FLU (ITH CIVIL IE CHITECTUF NOT SHOV VSTRUCTIC DF ANY DIS MECHANIC CAL & PLUI ERED AND/ Y & STORM /INGS. PRC LS ON S401 THE ARCH AB RECESS ORING SUF U VERTICA . FLOOR EL OR CMU W ETAIL. REI OF CMU W DIL. UNDER D BY THE G DERCUT D SLABS ON C U VERTICA . FLOOR EL OR CMU W ETAIL. REI OF CMU W DIL. UNDER D BY THE G DERCUT D SLABS ON C U VERTICA . FLOOR EL OR CMU W ETAIL. REI OF CMU W ETAIL. REI OF CMU W CONTROL S WHERE SC VATON THE P REASED B'S SOCIATED LL BE 2'-4" QUARE). CONTROL S CONTROL S S, SLAB, PIE FTG, GRA RADE ION JOINT OTING MA (REF. WALL S401	ER, L, SEV DOWNAL W. NONCE ALBE OR LINE SEVEN DOWNAL W. NONCE ALBE OR LINE SEVEN ALE SEVEN AND A SEVEN A S
ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOC ELEVATION -0-0' VERIFY UGGS ELEVATION WITH O'ULDY ALL WALLS SHALL BE LAD OUD FROM THE ARCHITECTURAL REF. ARCH. DRAWINGS, FOR ALL DIMENSIONS NOT SHOWN SHALL DERIFY ALL DIMENSIONS PROR TO CONSTRUCTION MIMEDIATELY NOTIFY ARCHITECTE RIGHEED OF ANY DISC COORDINATE EXACT 32E & LOCATION OF ALL MECHANICA PON. WALLS WITH THE MECHANICAL, ELECTRICAL & PLUME CONTRACTORS. NOTE: PERIMETER FOOTINGS SHALL BE LOWERED AND/OF PASS BELOW PLUMBING LINES (E.G., SANTARY & STORM LI LINES, ETC.) SHOWN ON THE PLUMBING DRAWINGS. PROV STEPS AS RECORDER PER THE VIPCAL DETALS (SOLS) ALL SLAR RECESSES SHALL BE LOCATED PER THE ARCHIT DRAWINGS, COORDINATE DEPTHS OF ALL SLAS (SOLS) COORDINATE REINFORCING DOWELS FOR CMU VERTICAL F WITH REINF. NOTED OW FLANS & SECTIONS. GROUT ALL CORES OF CAUS JOLID BELOW FILM FLOOR RUE PROVIDE THENKENED SLAB LUNCER CAU WERTCALF PROVIDE THENKENED SLAB LOCATED PER THE ARCHITE PROVIDE THENKENED SLAB LOCATED PER THE ARCHITE PROVIDE THENKENED SLAB LOCATED PER THE ARCHITE PROVIDE CONTRACTORS DOWELS FOR CMU VERTCALF PROVIDE CONTRACTORS DOWELS FOR CMU VERTCALF PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS TO RECE THICK-SET TERRAZZO. CERAMIC OR PRORCELUN THE LOCATION SS SHALL BEA CON APPROVED SOLUTIONES OF SMU PHOLES SHALL BEAR ON APPROVED SOLUTIONES ON SMOLT DENOTES CONTROL/CONTRACTION JOINTS IN SLABS TO RECE THICK-SET TERRAZZO. CERAMIC OR PORCELUNT THE LOCATION SS SHALL BEACH ON PROVINCE UNDERCUT DIT DENOTES CAUD DETABLE VIEWERS SCOLLARY THE SAMT PHOLOS CONTROL/CONTRACTION SING SEN STALES ON SMOLT DENOTES CAUDIC CONTRACTIONS IN SLABS TOR CERT PHOLOSE THER PROVIDE THE CHOOR STATE LOCATION SHALL BEACHING PHOLOSE CONTROL/CONTRACTION SHALL BEACHING SHALL BEACHING PHOLOSE ON PHOLOSE SHALL BEACHING SHALL BEACHING PHOLOSE COMPENDER FARICIS SHALL BEACHING SHALL BEACHING PHOLOSE ON SHALL BEACHING SHALL BEACHING SHALL BEACHING PHOLOSE ON SHALL BEACHING SHALL BEACHING SHALL BEACHING PHOLOSE TO A DISCHER SHALL BEACHING SHALL BEACHING	I. ALE ALRESHIN CEPCON PAINT ALEAN OF FOR ALSUE PRYTHILECOR EXPENSION OF FOR ALSUE PRYTHERE PRYTHILECOR EXPENSION OF FOR ALSUE PRYTHERE PRY	L ELEVATION EVATION +C EVATION +C EVATION +C EVATION +C L WALLS SF F. ARCH. DI IALL VERIFY MEDIATELY OORDINATE IN. WALLS V ONTRACTOF DITE: PERIM SS BELOW VES, ETC.) S EPS AS REC L SLAB REC AWINGS. C CONDINATE TH REINF. N ROUT ALL C OORDINATE TH REINF. N ROUT ALL C	2'-0". VERII ALL BE LA RAWINGS. (ALL DIME NOTIFY AI EXACT SIZ VITH THE N RS. ETER FOC PLUMBING CHOWN ON QUIRED PE CONDINA REINFORG VOTED ON ORES OF (CKENED SI EE S401 FC RAL DRAW REINFORG VOTED ON ORES OF (CKENED SI EE S401 FC RAL DRAW S SHALL B AVING MAT NCY. REF ITROL/COI ALLS ON SA RRAZZO, (VINYL SHI IALL BE CA RRAZZO, (VINYL SHI IALL BE CA RRAZZO, (VINYL SHI IALL BE CA COMBINEER F ED FOOTIN VHERE THE CONS. CTURAL D OG	FY USG AID OUT FOR AI FOR AI STORE RCHITE INSIONS RCHITE ZE & LO MECHAI DTINGS S LINES THE P INGS A CING DO PLANS CMU SC ING DO PLANS CMU SC ING S FO EAR ON TERIAL OR THIC INGS FO EAR ON TERIAL OF THE INGS A CING DO PLANS CMU SC ING S FO EAR ON TERIAL OF THE INGS S REFUL INGS S REFUL INGS S PROPY BRICIS DENO DENO DENO DENO DENO DENO DENO DENO	S ELEVA S ELEVA FROM FROM FROM FROM S PRIOR S PRIOR T PI S A SECT D DID BEL D DER ALL C C PRO D D D S S MUSTA S OF TH G D D S, EF LY COOL T O S PRIOR S OF TH G C PRO D D S, EF LY COOL T O S PRO S O S MUSTA FOOTIN S A CCEI S O F TH G C N A S O S MUSTA FOOTIN S A CCEI S O F TH G C N A S O S MUSTA FOOTIN S A CCEI S O S MUSTA T C S CON T C S CO	ATION W THE ARC NSIONS TO CON INEER C OF ALL ELECTRIC BE LOWE ANITARY G DRAW L DETAIL ED PER ALL SLA THE FLO FOR CMI 10NS. . INTERIC SLAB D ATIONS . OW FIN. . INTERIC SLAB D ATIONS . INTERIC . INTERIC SLAB D ATIONS . INTERIC . INTERC . INTERC . INTERC . INTERC . INTERC . INTERC . INTERC . INTE	ATTICLE AND	WAL VN. NO.CR ALBO ORLIGES AND A CONTRACT OF
ALL WALLS SHALL BE LAD OUT FROM THE ARCHITECTURAL REF. ARCH. DRAWINGS: ROR ALL DIMENSIONS NOT SHOWN MAUL VERIFY ALD DIMENSIONS PRIOR TO CONSTRUCTION IMMEDIATELY NOTIFY ARCHITECTENGINEER OF ANY DISC: COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL ELECTRICAL & FLUME CONTRACTORS. NOTIF: PERINETER FOOTINGS SHALL BE LOWERED AND/OF PASS BELOW PLUMBING INES (E.G., SAMITARY & STORM L) LINES, ETC JENOWN ON THE THE LIMENIO DRAWINGS. PROV STEPS AS REQUIRED PER THE TYPICAL DETAILS ON S401. AL SIA RECESSES SHALL BE LOCATED PER THE ARCHITE TURAUNAS: COORDINATE DETAIL DIMENS DRAWINGS. PROV STEPS AS REQUIRED PER THE TYPICAL DETAILS ON S401. ALL SIA RECESSES SHALL BE LOCATED PER THE FLOORING SUPP COORDINATE DETAIL DRAWINGS AND/OR THE FLOORING SUPP COORDINATE DETAIL DRAWINGS AND/OR THE FLOORING SUPP COORDINATE DETAIL ON DRELS FOR CAULW VERTICAL I WITH REINF ANCIED ON PLANS & SECTIONS. GROUT ALL CORES OF CAUL SOLD BELOW FIN. FLOOR ELL TESTINA AGEN.Y. REF. TYPICAL DETAIL DRAWINGS FOR LOCATIONS OF COMU VAL FOOTINGS SHALL BEAR ON APPROVED SOL. UNDERCI SUBTICTIONES SHALL BEAR ON APPROVED SOL. UNDERCI SUBTICTIONES SHALL BEAR ON APPROVED SOL. UNDERCI SUBTICTIONES SHALL BE CAPEFULLY COORDINATED WITH THE FOOTINGS SHALL BE CAPEFULLY COORDINATED WITH THE FUNCAL DETAIL ON SAMIL AR THE FLOORING SHALL BE CAPEFULLY COORDINATED WITH THE FUNCAL DETAIL ON SAMILAR THE FLOOR SHALL SUBMIC SINCE SUBCREVOR TOR SHALL BE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB DIO ARCHITECTENGINEER FOR REVIEW PRIOR TO PLACING SL BARNIER THE ADAVIS SO THE COXATON WILL WITHOUT CAVING AND MASION SALLE EVATION WILL FERSENCES STORE OF THE CAULFOR SHALL BE SAMIL SEA THE OORNINGS TOR ADAVES OF THE CAULANCES STOP DENOTES SHALL BE CONTRACTION WILL WITH THERE THE BANKS OF THE CAUCHTON WILL SEA TO DENOTES SHALL BE SAMIL SEA THE SHONE OF THE CAUCHTOR SHALL DENOTES SHALL DE CONTRACTOR SHALL SUBMITS AND WORE MAYN DENOTES	AL RESIM CODO NORALIST ALFA CON GEPECA ALSIE PRYTHTIECOA APENNOFECCS SUCCESS S	L WALLS SH F. ARCH. DI WALLS VENERY MEDIATELY DORDINATE N. WALLS V DORDINATE N. WALLS V DORDINATE N. WALLS V DORDINATE N. WALLS V DORDINATE SS BELOW VES, ETC.) S EPS AS REC AWINGS. C CONTINET TH REINF. N ROUT ALL CV OORDINATE TH REINF. N CONTINGS. S CONTRACTOF CONTING (I.E. W THAL COLL DOR WELDED THE COLL DOR WELDED THE COLL THE COLL TH	HALL BE LA RAWINGS. (ALL DIME NOTIFY AI EXACT SIZ VITH THE N RS. ETER FOC PLUMBING CHOWN ON QUIRED PE COORDINA REINFORC NOTED ON ORES OF (CKENED SI EE S401 FC RAL DRAW S SHALL B ARING MAT NCY. REF ITROL/COI AILS ON SA RRAZZO, (VINYL SHI HALL BE CA RATOL/COI AILS ON SA RRAZZO, (VINYL SHI HALL BE CA RATOL/COI AILS ON SA RAZZO, (VINYL SHI HALL BE CA RATOL/COI S SHALL BE CA RAZZO, (VINYL SHI HALL BE CA RAZZO, (VINYL SHI CONMED FC COUNT IE 2'0" WIDE UMN FOOTIN VHERE THE AVING ANE COUNT IE 2'0" WIDE UMN FOOTIN N OF POLY WIRE FAB CONS. CONS.	Ald OUT FOR AL SNSIONS RCHITE ZE & LO MECHAI DTINGS S LINES LINES THE P INGS A CING DO PLANS CMU SC ING DO PLANS CMU SC ING S FO INGS FO INGS FO INGS FO INGS FO INGS FO INGS FO INTRACT INGS S REFUL INGS S REFUL INGS S REFUL INGS S REFUL INGS S REFUL INGS S REFUL INGS S REFUL INGS S REFUL INGS S INTRACT INGS S REFUL INGS S REFUL INGS S REFUL INGS S INTRACT INGS S REFUL INGS S INTRACT INGS S REFUL INGS S REFUL INS S REFUL INS S REFU	FROM T LL DIMEI S PRIOR CATION NICAL, E SHALL E G (E.G., S. LUMBINI TYPICAI E LOCATI THS OF ND/OR T OWELS F & SECT DLID BEL DER ALL CKENED OR LOC/ N APPRC AS DETE AL FOOT TION JOI L JOINT: COR PRO OR LOC/ N APPRC AS DETE AL FOOT TOR SH/ CVEW PF E ACCEI S OF TH GHING). S MUST ACCURA FOAT S OF TH GHING). S MUST ACCURA FOAT TES FIN. TES FIN. TES SLA ROL/CON TES TRE NG ELEV TES SLA ROL/CON TES TRE NG ELEV TES CMU	THE ARC NSIONS TO CON INEER C OF ALL ELECTRIC BE LOWE ANITAR' G DRAW L DETAIL ED PER ALL SLA THE FLO FOR CMI 10NS. . INTERIC SLAB D ATIONS . INTERIC . INTERIC SLAB D ATIONS . INTERIC . INTERC . INTE	CHITECTUF NOT SHOV NSTRUCTIC DF ANY DIS MECHANIC CAL & PLUF ERED AND/ Y & STORM /INGS. PRO S ON S401 THE ARCH AB RECESS OR ING SUF U VERTICA . FLOOR EL OR CMU W ETAIL. REF OF CMU W ETAIL	AL VN. AL OR ALL AL
IMMEDIATELY NOTIFY ARCHITECTENGINEER OF ANY DISC. COORDINATE EXACT SIZE & LOCATION OF ALL MECHANICAL PLON. WALLSWITH THE MECHANICAL, ELECTRICAL PLUME ONTRACTORS. MOTE: PERMETER FOTINGS SHALL BE LOWERED AND/OF PASS BELOW PLUMEING LINES (E.G., SANTARY & STORUL LINES, ET.) SHOWN ON THE PLUMBING DRAWINGS. PROV STEPS AS REQUIRED PER THE VICAL DETAILS ON SAU. ALL SLAR RECESSES SHALL BE LOCATED PER THE ARCHIT DRAWINGS. COORDINATE DEPITS OF ALL SLAR RECESSES ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPPO- COORDINATE REINFORCING DOWELS FOR CMU VERTICAL F WITH REINF. NOTED ON PLANS & SECTIONS. I.GROUT ALL CORES OF CAU SOLID BELOW FIN. FLOOR COM WAL POTINGS. SEE SAOT FOR THICKENED SLAB DETAIL. REF. ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CAU WAL COTINGS. SEE SAOT FOR THICKENED SLAB DETAIL. REF. ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CAU WAL LIN FOOTINGS SHALL BEAR ON PAPROVED SOLID. UNDERCI SUTALE BEARING MATERIAL AS DETERMINED BY THE OGE TESTING ACENCY. REF. TYPICAL FOOTING UNDERCUT DET TESTING ACENCY. REF. TYPICAL FOOTING UNDERCUT DET THCK-SET TRAZO, CERMALL DE COMENDATION SI N. SLABS TO RECE UNITACION. THE CONTRACTOR SHALL BEAR ON CAPPORUED SOLI WITCUT CONTRACTOR, HEAT ALL JOINTS IN SLABS TO REDUCT THCK-SET TRAZO, CERMALL POOTINGS ARE ACCEPTABLE WHERE SOL MACHITECTURAL DE CAREFULLY COORDINATE HEAP CONTRACTOR. THE CONTRACTOR SHALL BEAR ON THE SOL MECONTRACTOR. THE BANKS OF THE SCANATION WILL CONTRACTOR. THE CONTRACTOR SHALL BEAR ON CHARGEN WITH THE LOCORING SHALL BEAR ON CURVEN ST ACCHITECTURAL WISE STORUCTOR SHALL BE 2.4" WINT OF EXAMINE ON THE SCANATION WILL DE OF PORTING COUNT AND AND SHALL BEAR ON CHARGEN THE PORTING THE CONTRACTOR SHALL BEAR ON CHARGEN THE PORTING STEPACH POOTINGS ARE ACCEPTABLE WHERE SOL PERMITICUTURES AND AND SHALL BEAR ON CHARGEN THE ST ACCH. DRAWING STORUCTURES THE RECONDATER. THE ARCH. DRAWING STORUCTURES THE ARCHITECTURAL REF	IM CCFDC MPALIST ALFAR CCWI GF PFCAR ALSUE PTYTHTIELCCAR EAPEWIOFELFCS SLICE RJO PL FITELO T	MEDIATELY DORDINATE N. WALLS V DORDINATE N. WALLS V DITE: PERIM SS BELOW VES, ETC.) S EPS AS REC L SLAB REC AWINGS. C CALIFECTUF DORDINATE TH REINF. N ROUT ALL C COVIDE THIC DORDINATE TH REINF. N ROUT ALL C COVIDE THIC DORDINAS. S CHITECTUF L FOOTINGS. SCHITECTUF L FOOTINGS. SCHITECTUF L FOOTINGS. SCHITECTUF ICK-SET TE E (VCT) OR OORING SH DONTRACTOF CONING SH DONTRACTOF CONING SH DONTRACTOF CONING (I.E. W THOUT C/ EARTH-FORMI RTH-FORMI CALESTIC INT LOCATI AN LEGEND F T/X' S'X' CJ TE24 -1'-4" S'CONC. S' CONC. S'	NOTIFY AI EXACT SIZ VITH THE N RS. ETER FOC PLUMBING SHOWN ON QUIRED PE ESSES SH COORDINA RAL DRAW REINFORG NOTED ON ORES OF C CKENED SI EE S401 FC RAL DRAW S SHALL B ANNG MAT NCY. REF ITROL/CON AILS ON S4 RRAZZO, C VINYL SHI IALL BE CA RRAZZO, C VINYL SHI IALL BE CA COUNT F ORMED FC CCOUNT F 2'0" WIDE UMN FOOT N OF POLY WIRE FAB CONS. C CONS.	RCHITE ZE & LO MECHAI DTINGS & LINES LINES LINES THE PERTHE IALL BE TEDEP INGS A CLAB UNI OR THIC INGS FO LAB UNI OR THIC INGS S INTRACT INGS S INTRACT INGS S INTRACT INGS S INTRACT INGS S INTRACT INTRACT INGS S INTRACT INGS S INTRACT INGS S INTRACT INGS S INTRACT INGS S INTRACT INGS S INTRACT INGS S INTRACT INGS S INTRACT INTRACT INGS S INTRACT IN	CT/ENG CATION NICAL, E SHALL E G (E.G., S LUMBINI TYPICAI E LOCATI DTHS OF ND/OR T OWELS F S & SECT DLID BEL DER ALL CKENED OR LOC/ N APPRC AS DETE AL FOOT TION JOI L JOINT IC OR PC DODS, EF LY COOL TOR SH/ CVIEW PF E ACCEI S OF TH GHING). S MUST ACCURA FOOTIN HALL BE (LENE FIN. TES FIN. TES TOF TES SLA ROL/CON TES TRE NG ELEN TES SLA	INEER C OF ALL COF ALL COF ALL CLECTRIC CLECTRIC CLECTRIC CLEATIN COF ALL CLEATIN COF CALL CLEATIN COF CALL CLEATIN CLEATIONS COF CALL CLEATIONS C	DF ANY DIS MECHANIC CAL & PLUI ERED AND/ Y & STORM /INGS. PRO SON S401 THE ARCH AB RECESS ORING SUF U VERTICA . FLOOR EL OR CMU W ETAIL. REI OF CMU W ETAIL. REI OF CMU W DERCUT D SLABS ON C UNTHE O DERCUT D SLABS ON C UNTHE O DERCUT D SLABS ON C UNTHE O DERCUT D SLABS ON C UNTHE O CONTROL S WHERE SC VATION WI /ER, THE P REASED B' SSOCIATED UNTHE P REASED B' SSOCIATED CONTROL S CONTROL S C C C C C C C C C C C C C C C C C C C	CR CALB OR LITESEPPI LR EVILATION CONTRACT CONT
EDN. WALLS WITH THE MECHANICAL, ELECTRICAL & PLUME CONTRACTORS. MOTE PERMETER FOOTINGS SHALL BE LOWERED AND/O PASS BELOW PLUMBING LINES (E.G., SAMTARY & STORM LINES, ETC, SHOWN ON THE PLUMBING DRAWINGS. PROV STEPS AS REQUIRED PER THE TYPICAL DETAILS ON SAU. ALL SLAB RECESSES SHALL BE LOCATED PER THE ACCHIT FORWINGS: COORDINATE DEPTRS OF ALL SLAB RECESSES ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPP COORDINATE REINFORCING DOWELS FOR CAU WERTCAL F WITH REINF. NOTED ON PLANS & SECTIONS. GROUT ALL CORES OF CMU SOLID BELOW FIN. FLOOR ELE FORVIDE THERIPRORY CIMOUES FOR CAU WERTCALF FORVIDE THERIPRORY CIMOUES AND CHEN FLOOR MU WAL FORTINGS SHALL BEAR ON APPROVED SOL. UNDERCI SUTABLE BEARING MATERIAL AS DETERMINED BY THE GEG TESTIGA GAECK. REF. TYPICAL FOOTING UNDERCID DET PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS TO RECE TIFYCAL DETAILS ON SAU). ALL JOINTS IN SLABS TO RECE TIFYCAL DETAILS ON SAU). ALL JOINTS IN SLABS TO RECE TIFYCAL DETAILS ON SAU). ALL JOINTS IN SLABS TO RECE TIFYCAL DETAILS CONTRACTION JOINTS IN SLABS TO RECE TIFYCAL DETAILS CONTRACTION SHALL BE CARFIDITY LE CONTRACTOR, RETAIL SUEW PRIOR TO PLANCING MENTATION OF POLYPROYLENCE THE PLA OFTAMAL BE CARFIDITY LE CONTRACTOR SHALL BE CARFIDITY LE CONTRACTOR SHALL BE CARFIDY THE CONTRACTOR SHALL BE CARFIDY THE PLANG OF THE FLOOR SHALL BE CARFIDY THE PLANG OF DOTINGS ARE ACCEPTABLE WHERE SOL PENTRES COUNT FOR THE PLACORDUMES, HOWEVER, THE PLACORDUME PLANK BE CARFIDY WITH THE CONTRACTOR THE PLACORDUM SHALL BE CARFIDY THE CONTRACTOR SHALL BE CARFIDY THE SAU OSERIC STORM SHALL BE SAUCON SHALL BE SAUCON PENTRES COUNT FOR THE PLACORDUMES. THE PLACORDUM SHALL BE CARFIDY DENOTES SHALL BE CARFIDY DENOTES SHALL BE SAUCONT SHALL BE SAUCON THE SAUCONT SHALL BE CARFIDY DENOTES SHALL DE SAUCONT SHALT BE CARFIDY DENOTES SHALL DE SAUCONT SHALT BE CARFIDY DENOTES SHALL POOTING SHALL BE CARFIDY DENOTES SHALL	FOC MARK CON GEREGA AUTERTHEICOR APPROPERS SEE ROPHENDERS SEE ROPH	N. WALLS V N. WALLS V NTRACTOF DTE: PERIM SS BELOW VES, ETC.) S EPS AS REC L SLAB REC RAWINGS. C CALIFICTUF DORDINATE TH REINF. N ROUT ALL C COVIDE THIC DORDINATE TH REINF. N ROUT ALL C ROUT ALL C COVIDE THIC DOTINGS. S CHITECTUF L FOOTINGS SCHITECTUF L FOOTING STING AGE SOVIDE CON PICAL DETA ICK-SET TE E (VCT) OR OORING SH DOTRACTOF CONING SH NTRACTOF CONING SH NTRACTOF CONING (I.E. W THOUT C/ EARTH- FORMI RMIT (I.E. W THOUT C/ CALE CON R WELDED F. ARCHITE INT LOCATI AN LEGEND F. ARCHITE T/X' S/X' CJ F24 -1'-4" S''CONC. S' CONC. S'	VITH THE N RS. ETER FOC PLUMBING SHOWN ON QUIRED PE SESSES SH COORDINA REINFORG NOTED ON ORES OF (CKENED SI EAUD FOR AUD RAW S SHALL B ARING MAT NCY. REF ITROL/CON MILS ON SA RRAZZO, (VINYL SHI VHERE THE AVING AND CORMED F(CCOUNT I VHERE THE AVING AND CORMED FOOTIN VHERE THE AVING AND CORMED FOOTIN VHERE FAB COUNT I VHERE FAB COUNT I COUNT I	MECHAI MECHAI DTINGS G LINES G LINES C LINES THE P THE THE THE DEP TINGS A CING DC PLANS C LAB UNI OR THIC TINGS F EAR ON TERIAL TYPIC, NTRACT FOR RE TYPIC, NTRACT FOR TR TYPIC, NTRACT TYPIC,	NICAL, E SHALL E G.E.G., S LUMBINI TYPICAI ELOCATI PTHS OF ND/OR T OWELS F S & SECT DLID BEL DER ALL CKENED OR LOC/ N APPRC AS DETE AL FOOT TION JOI L JOINT: IC OR PC DODS, EF LY COOI TOR SH/ CVIEW PF E ACCEI S OF TH GHING). S MUST ACCURA FOOTIN SHALL BE (LENE FI PERMITT FOR MAS TES FIN. TES TOF TES SLA ROL/CON TES TRE NG ELEV TES WAI TYP. DET	ELECTRIC BE LOWE ANITARY G DRAW L DETAIL ED PER ALL SLA THE FLO FOR CMI TONS. OW FIN. INTERIC SLAB D ATIONS INTERIC SLAB D ATIONS OVED SO ERMINEL FING UNI INTS IN S SIN SLA DOCE SO ERMINEL FING UNI INTS IN S SIN SLA DOCE SO ERMINEL FING UNI INTS IN S SON SLA DOCE SO FROM TO PTABLE E EXCAN BE INCI CIES AS GS SHAI E 5'-4" SO BER SEC FOOR COF FTG TO OR FTG TO ON FTG	CAL & PLUI ERED AND/ Y & STORM /INGS. PR(S ON S401 THE ARCH AB RECESS ORING SUF U VERTICA . FLOOR EL OR CMU W ETAIL. REI OF CMU W VIL. UNDER D BY THE G DERCUT D SLABS ON F CONTROL S WHERE S(VATION WI VER, THE P REASED B' SSOCIATED LL BE 2'-4" QUARE). CONDARY SLABS ON CONTROL S CONTROL S S, SLAB, PIE FTG, GRA RADE ION JOINT DOTING MA (REF. WALL ING WITH S	MBI OR ILLI ILII ILLI
PASS BELOW PLUMEING LINES (E.G., SANTARY & STORN LI LINES, ETC.) SHOWN ON THE PLUMEING CRAWINGS, EROV STEPS AS REQUIRED PER THE TYPICAL DETAILS ON SAUT. ALL SLAB RECESSES SHALL BE LOCATED PER THE ARCHIT DRAWINGS, COORDINATE DEPTHS OF ALL SLAB RECESSES ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPP COORDINATE REINFORCING DOWELS FOR CMU VERTICAL F WITH REINF. NOTED ON PLANS & SECTIONS. GROUT ALL CORES OF CMU SOLID BELOW FIN. FLOOR ELE PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WAL FOOTINGS SHALL BEAR ON APPROVED SOLIL WIDERCI SUITABLE BEARING MATERIAL AS DETERMINED BY THE GEV TESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DET FORVIDE CONTROLCONTRACTON JOINTS IN SLABS TO RECE THICK-SET TERRAZZO, CERMIC CR PORCELAIN TLE. YWW THE, VCT) OR WINN, SHEET GOODS, EPOXY OR SIMILAR TH FLOORING SHALL BEAR OR APPROVED CAINT SLABS TO RECE THICK-SET TERRAZZO, CERMIC CR PORCELAIN TLE, YWW THE, VCT) OR WINN, SHEET GOODS, EPOXY OR SIMILAR TH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB, JOINT CANING SAND SLOUGHING, HOWEVER, THE PLA OF EARTH-FORMED FOOTINGS ANE ACCEPTABLE WHERE SOIN PROVIDE CONTROLORTRACTOR SHULS THE INCREASED 92 EDRITES TO ACCOUNT FOR INACCURACIES ASSOCIATED W FORMED FOOTINGS SHALL BE 24* SOURRE) SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON GRADE FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON GRADE SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FOOTING SUBMUST BE SHALL BE 54* SOURRE) SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FOOTING SUBMUST BE SHALL BE 24* SOURRE) SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FORVIDED WIRE FABRIC IS PERMITTED FOR SLABS ON GRADE CONTRACTORS ARE REQUIRED TOR OCORDINATE THEFP DENOTES STAL DESS ON TOR OF THE EXCIDENTION SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE POVIDE SOLA FOR THE CORT MUSH. DENOTES SUBMUST	PALIST ALGAR COW GE PECAR ALSTE PETTHELECOR APPENDEDECS SUCCED DIE 1990 - 1990	ISS BELOW ISS BELOW JES, ETC.) S EPS AS REC AWINGS. C CAUITECTUF DORDINATE TH REINF. N ROUT ALL C COVIDE THIC DOTINGS. S CHITECTUF L FOOTINGS. SCHITECTUF L FOOTINGS. SCHITECTUF L FOOTINGS. SCHITECTUF L FOOTINGS. SCHITECTUF ICK-SET TE E (VCT) OR OORING AGE COVIDE CON PICAL DETA IICK-SET TE E (VCT) OR OORING AGE COVIDE CON PICAL DETA IICK-SET TE E (VCT) OR OORING SH DNTRACTOF C (UCT) OR OORING (I.E. W THOUT CA C ARCHITECT/EI RTH-FORMI C ARCHITECT/EI INT LOCATI AN LEGENE F 7/X' S C CONC. S 5'' CONC. S	PLUMBING SHOWN ON QUIRED PE SESSES SH COORDINA RAL DRAW REINFORG NOTED ON ORES OF (C XENED SI EE S401 FC RAL DRAW S SHALL B XRING MAT NCY. REF ITROL/COI AILS ON S4 RRAZZO, (VINYL SHI IALL BE CA RRAZZO, (VINYL SHI IALL BE CA RATE CO NGINEER F ED FOOTIN VHERE THE AVING ANE CORMED FC CCOUNT F 2'0" WIDE UMN FOOT N OF POLY WIRE FAB CONS.):	G LINES N THE P FR THE HALL BE THE DEP VINGS A CING DO PLANS CLAB UNION OR THIO VINGS FO EAR ON TERIAL OR THIO VINGS FO EAR ON TERIAL ON TRACTION AREFUL VINGS A CAREFUL VINTRACTION FOR RE VINTRACTION FOR THIO VINTRACTION FOR THIO VINTRACTION	E (E.G., S LUMBINI TYPICAI E LOCATI PTHS OF ND/OR T OWELS IF & SECT DLID BEL DER ALL CKENED OR LOC/ N APPRC AS DETE AL FOOT TION JOI L JOINT IC OR PC DODS, EF LY COOL TOR SH/ EVIEW PF E ACCEI S OF TH GHING). SS MUSTA ACCURA FOOTIN HALL BE (LENE FI PERMITT FOR MAS TES FIN. TES SLA ROL/CON TES SLA ROL/CON TES TRE NG ELEV TES CMU	ANITARY G DRAW L DETAIL ED PER ALL SLA THE FLO FOR CMI 10NS. . INTERIO SLAB D ATIONS . INTERIO . INTERIO SLAB D ATIONS . INTERIO . INTE	Y & STORM /INGS. PR(_S ON S401 THE ARCH AB RECESS ORING SUF U VERTICA . FLOOR EL OR CMU W ETAIL. REI OF CMU W DERCUT D SLABS ON 0 BS TO REC IN TILE, VIN R SIMILAR ED WITH TH BMIT SLAB PLACING S WHERE SC VATION WI /ER, THE P REASED B' SSOCIATED UVATION WI /ER, THE P REASED B' SSOCIATED LL BE 2'-4" QUARE). CONTROL 8 SLABS ON CONTROL 8 SLABS ON CONTROL 8 SLABS ON CONTROL 8	I LII LII I TEESEPPL R E VILLE R CEET R CE
DRAWINGS. COORDINATE DEPTHS OF ALL SLAB RECESSES: ARCHITECTURAL DRAWINGS AND/OR THE FLOORING SUPP COORDINATE REINFORCING DOWELS FOR CMU VERTICAL F. ORDITALL CORES OF CMU SOLID BELOW FIN. FLOOR ELED PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WAL FORTINGS. SEE SAM FOR THICKENED SLAB DETAIL. REF. TARCHITECTURAL DRAWINGS FOR LOCATIONS OF CMU WAL ALL FOOTINGS. SHALL BEAR ON APPROVED SOL. UNDERCU DETAINS SHALL BEAR ON APPROVED SOL. UNDERCU PROVIDE CONTROL/CONTRACTION JOINTS IN SLABS ON GR TYPICAL DETAILS ON SAGI). ALL JOINTS IN SLABS ON GR TYPICAL DETAILS ON SAGI). ALL JOINTS IN SLABS TO RECE THICK-SET TERAZZO, CERMAIC OR PORCELAIN TLE, YWIN COTTACTOR. THE CONTRACTOR SHALL SUBMIT SLAB.JO ARCHITECTIENGINEER FOR REVIEW PRIOR TO PLACING SLAB COTARCTOR. THE CONTRACTOR SHALL SUBMIT SLAB.JO ARCHITECTERNIE FOR REVIEW PRIOR TO PLACING SLAB COTARCTOR. THE CONTRACTOR SHALL BE 2.4" SQUARE). SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FORMED FOOTINGS SHALL BE 5.4" SQUARE). SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FORMED EDUMICE FARIC IS PERMITTED FOR SLABS ON GRADE FYR DENOTES FIN. FLOOR TYX DENOTES STAB ON GRADE THICKNESS SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY	DAR COWI GE PROAF ALSUTE PRYTHILLICAR ADEVIDED FOSSILICE REAL PROFESSILICE REAL PROF	AWINGS. C CCHITECTUF DORDINATE TH REINF. N ROUT ALL C COVIDE THIC DOTINGS. S CCHITECTUF L FOOTINGS. SCHITECTUF L FOOTINGS ITABLE BEA STING AGE COVIDE CON PICAL DETA ICK-SET TE E (VCT) OR OORING SH DOTAL DETA ICK-SET TE CONCLESS CONC. ST CONC. ST	COORDINA RAL DRAW REINFORC NOTED ON ORES OF (CKENED SI EE S401 FC RAL DRAW S SHALL B ARING MAT NCY. REF ITROL/CON AILS ON S4 RRAZZO, (VINYL SHI IALL BE CA RRAZZO, (VINYL SHI VING AND COUNT I VING FOOTIN VIRE FAB CCTURAL D ONS.):	TE DEP (INGS A CING DC PLANS CMU SC LAB UNI OR THIC (INGS FI EAR ON TERIAL / NTRACI IO1). AL CERAMI EET GC NTRACI FOR RE NGS AR E BANK O SLOUC OOTING FOR IN/ E WALL INGS S (PROPY BRIC IS F DENO DENO DENO CONTE CONTE DENO CONTE	THS OF ND/OR T ND/OR T OWELS F & SECT DLID BEL DER ALL CKENED OR LOC/ N APPRC AS DETE AL FOOT TION JOI L JOINT: IC OR PC DODS, EF LY COOI TOR SH/ CVIEW PF E ACCEI S OF TH GHING). S MUST ACCURA FOOTIN SHALL BE (LENE FI PERMITT FOR MAS TES FIN. TES SLA ROL/CON TES SLA ROL/CON TES SLA ROL/CON TES SLA ROL/CON TES SLA ROL/CON TES SLA ROL/CON TES SLA ROL/CON TES SLA ROL/CON TES SLA ROL/CON TES CMU	ALL SLA THE FLOM FOR CMI TONS. OW FIN. INTERIO SLAB D ATIONS OVED SO ERMINEL FING UNI INTS IN S S IN SLA DOCELA POXY OF RDINATE ALL SUB RIOR TO PTABLE E EXCAN HOWEV BE INCI CIES AS GS SHAI E 5'-4" SC BER SEC FD FOR SONRY O FLOOR PTABLE SONRY O FLOOR PTABLE SONRY O FLOOR ALL SUB SONRY O CIES AS SONRY O FLOOR CIES AS SONRY O CIES	AB RECESS ORING SUF U VERTICA . FLOOR EL OR CMU W ETAIL. REI OF CMU W DIL. UNDER D BY THE G DERCUT D SLABS ON 10 SLABS ON 10 SOCIATED LL BE 2'-4" QUARE). CONDARY SLABS ON CONTROL 8 SLABS	ESPLICE CONTRACT CONT
COORDINATE REINFORCING DOWELS FOR CMU VERTICAL F WITH REINF. NOTED ON PLANS & SECTIONS. GROUT ALL CORES OF CMU SOLID BELOW FIN FLOOR LEIP PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WAL FOOTINGS. SEE SAID FOR THICKENED SLAB DETAIL. REF. ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CMU WAL ALL FOOTINGS SHALL BEAR ON APPROVED SOL. UNDERCU ESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DET PROVIDE CONTROLCONTRACTION JOINTS IN SLABS ON GR TYPICAL DETAILS ON SAID. ALL JOINTS IN SLABS ON GR TYPICAL DETAILS ON SAID. ALL JOINTS IN SLABS ON GR TYPICAL DETAILS ON SAID. ALL JOINTS IN SLABS ON GR TYPICAL DETAILS ON SAID. ALL JOINTS IN SLABS ON GR TYPICAL DETAILS ON SAID. SECONDARY RE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB. JO ARCHITECTRONICHER FOR THE EVEN PRIOR TO PLACING SLAB. EARTH-FORMED FOOTINGS ARE ACCEPTABLE WHERE SOID PERMIT (IL: WHERE THE BANKS OF THE EXCAVATION WILL WITHOUT CAVING AND SLOUGHING). HOWEVER, THE FLA OF EARTH-FORMED FOOTINGS MALL SESCONDARY RE FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON GR EF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL AS E JOINT LOCATONS. PLAN LEGEND: FF DENOTES FIN. FLOOR TYX DENOTES BOTT ON OF FTG, GRADE CONTROLOONTRACTION JOINT TE24 -1-4* DENOTES SMALL POOTING SHALL BE 5.4* SOUAREY CONTROLOONTRACTION JOINT TE24 -1-4* DENOTES CMU FOUNDATION WALL CONTRACTORS. FLAN LEGEND: FF DENOTES CMU FOUNDATION WALL CONTRACTOR SARE REQUIRED TO COORDING WITH ST EFT. THE SAID SERFES FOR TYPICAL FRAMING AND MASON ALL ELEVATION ARE REFERENCED FROM THE FIRST FLOC CONTROLOONTRACTION JOINT TE24 -1-4* DENOTES CMU FOUNDATION WALL CONTRACTOR SARE REQUIRED TO COORDINATE HEIF DISCPLINES FOR WELDED WIRE FABRIC SOL FOR MASONS MOT GADE THICKNES FOLLOWING WELDED WIRE FABRIC SOL FOR MALD MERTING STUDY ALL MALL SHALL DIR CONTING WITH ST FF. THE SAID SERFES FOR TYPICAL FRAMING AND MASON ALL LEEVATION ARE REFERENCED FROM THE FIRST FLOC CONTRACTOR SARE REQUIRED TO COORDINATE HEIF DISCPLINES FOR MADE OFFICIES TOR ALL DIMENSIONS NOT SHOWN SHALL SHALL BE LAID OUT FROM THE SCOPE OF THESE OR THEREFORCIONS ARE REFE	COWIGE FROM ALUE FRYTHTIELOOR A PENDEDOS SUCTION OF THE CITINATION	DORDINATE TH REINF. N ROUT ALL CI ROVIDE THIC DOTINGS. S CHITECTUF L FOOTINGS ITABLE BEA STING AGE ROVIDE CON PICAL DETA INTABLE BEA STING AGE ROVIDE CON PICAL DETA INTABLE BEA STING AGE ROVIDE CON PICAL DETA INTACTOF CONTING SH DOTING	REINFORC NOTED ON ORES OF (CKENED SI EE S401 FC RAL DRAW S SHALL B ARING MAT NCY. REF ITROL/CON AILS ON S4 RRAZZO, (CVINYL SHI IALL BE CA AVING ANE ORMED FC CCOUNT I 2'-0" WIDE UMN FOOT N OF POLY WIRE FAB CCTURAL D ORMED FC ONS. D:	CING DO PLANS CMU SC LAB UNI OR THIC (INGS FI EAR ON TERIAL / NTRACT 101). AL CERAMI EET GC AREFUL NTRACT FOR RE NGS AR E BANK O OTING FOR IN/ EWALL TINGS S (PROPY BRIC IS F DENO DENO DENO CONTIF DE	OWELS F & SECT DLID BEL DER ALL CKENED OR LOC/ N APPRC AS DETE AL FOOT TION JOI L JOINT: IC OR PC DODS, EF LY COOL TOR SH/ COODS, EF E ACCEL S OF TH GHING). S MUST ACCURA FOOTIN: SHALL BE (LENE FI PERMITT FOR MAS TES FIN. TES SLA ROL/CON TES SLA ROL/CON TES TRE NG ELEN TES SLA ROL/CON TES TRE NG ELEN TES CMU	FOR CMI IONS. .OW FIN. .INTERIC SLAB D ATIONS VED SO ERMINEL FING UNI INTS IN S S IN SLA DRCELA POXY OF RDINATE ALL SUB RIOR TO PTABLE E EXCAN HOWEN BE INCI .CIES AS GS SHAI E 5'-4" SC BER SEC FED FOR SONRY OF FLOOR PTADLE CON FO CON FTO CON F	U VERTICA . FLOOR EL OR CMU W ETAIL. REI OF CMU W DIL. UNDER D BY THE G DERCUT D SLABS ON (ABS TO REC SLABS ON (ABS TO REC SLABS ON (ABS TO REC SLABS ON (CONTROL S CONTROL S CON	L R EV ALL CCET, TAL CCET, THI HE JOIN HE SLA SLA VYL I HI HE JOIN HE SLA VYL ET, T HI HE JOIN HE SLA VYL ET, T HI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA VYL THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE HE SLA V THI HE THI HE THI HE THI HE THI THI HE THI HE THI HE THI THI HE THI THI THI THI HE THI THI THI THI THI THI THI THI THI THI
2. PROVIDE THICKENED SLAB UNDER ALL INTERIOR CMU WAL FOOTINGS. SEE S401 FOR THICKENED SLAB DETAIL. REF. ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CMU WAL FOOTINGS. SHALL BEAR ON APPROVED SOL. UNDERCUT DET ITESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DET ITESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DET ITESTING AGENCY. REF. TYPICAL FOOTING UNDERCUT DET ITHCK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VIW) THICK-SET TERRAZZO, CURANCE ON SALL SUBMIT SLAB JO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACING SL EARTH-FORMED FOOTINGS ARE ACCEPTABLE WHERE SOL PERMIT (IL: WHERE THE BANKS OF THE EXCAVATION WILL WITHOUT CAVING AND SLOUGHING), HOWEVER, THE PLAC OF EARTH-FORMED FOOTINGS ANULS BE INCREASED BY 2 EDGES TO. ACCOUNT FOR INACCURACIES ASSOCIATED W FOR WIELDED WIRE FABRIC IS PERMITTED FOR SLABS ONG 2. REF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL & E JOINT LOCATIONS. 2. PLAN LEGEND: FF DENOTES FIN. FLOOR TY'X DENOTES TRUCTOR TAKEN, WALL F OOTING ELEVATION (REF. WALL F OOTING SLEVENCH FOOTING WITH ST TE24 -11-4" DENOTES CMU FOUNDATION WALL DENOTES SLAB ON GRADE 5' SLAB: 6x6-W2 1XW2.1 WWF 5' SLAB: 5YALL BE LADO OUT FROM THE ARCHITECTURAL CUCATION SARE ST	2. A. S. F. B. S. F. R. R. ALMPH AL	ROVIDE THIC DOTINGS. S CHITECTUF L FOOTINGS STING AGE STING AGE STING AGE ROVIDE CON PICAL DETA ICK-SET TE LE (VCT) OR OORING SH DORING SH DORING SH DORING SH DORING CON CONTRACTOF CONTRACTOF CONTRACTOF CONTRACTOR CONTRA	CKENED SI EE S401 F(RAL DRAW S SHALL B ARING MAT NCY. REF JTROL/CON AILS ON S4 (RRAZZO, (VINYL SHI IALL BE CA (RRAZZO, (VINYL SHI IALL BE CA (CCOUNT I 2'-0" WIDE DFOOTIN VHERE THE AVING ANE CORMED F(CCOUNT I 2'-0" WIDE UMN FOOT N OF POLY WIRE FAB CTURAL D ONS.):	LAB UNI OR THIC (INGS FI EAR ON TERIAL / . TYPIC/ NTRACI IO1). AL CERAMI EET GC AREFUL NTRAC FOR RE NGS AR E BANK O SLOUC OOTING FOR IN/ E WALL TINGS S (PROPY BRIC IS F DENO DENO DENO CONTI DENO CONTI DENO CONTI DENO CONTI DENO CONTI DENO CONTI DENO CONTI DENO CONTI DENO CONTI DENO CONTI DENO CONTI DENO CONTI DENO CONTI DENO	DER ALL CKENED OR LOC/ N APPRC AS DETE AL FOOT TION JOI L JOINT: IC OR PC DODS, EF LY COOI TOR SH/ CVIEW PF E ACCEI S OF TH GHING). SS MUST ACCURA FOOTIN SHALL BE (LENE FI PERMITT FOR MAS TES FIN. TES TOF TES BOT TES SLA ROL/CON TES TRE NG ELEV TES WAI TYP. DET TES CMU	INTERIC SLAB D ATIONS VED SO ERMINEL FING UNI INTS IN S S IN SLA DRCELA POXY OF RDINATE ALL SUB RIOR TO PTABLE E EXCA' BE INCI CIES AS GS SHAI E 5'-4" SO IBER SEC FED FOR SONRY OF FLOOR P OF FTG TOM OF B ON GF NTRACT NCH FO VATION (LL FOOT	OR CMU W ETAIL. REI OF CMU W OIL. UNDER D BY THE G DERCUT D SLABS ON (ABS TO REC IN TILE, VII R SIMILAR T ED WITH TH BUT SLAB, ON PLACING S WHERE SC VATION WI VER, THE P REASED B' SSOCIATED LL BE 2'-4" QUARE). CONTROL S CONTROL S CONTR	ALI ALI CLEET CET CET CET CET CET CET CET CET CET
ARCHITECTURAL DRAWINGS FOR LOCATIONS OF CMU WAL ALL FOOTINGS SHALL BEAR ON APPROVED SOIL. UNDERCI SUTABLE BEARING MATERIAL AS DETERNINGED BY THE GER FROVIDE CONTROL/CONTRACTION JOINTS IN SLABS TO RECE THICK-SET TERRAZZO, CERAMIC OR PORCELAIN TILE, VINY TILE /VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAT H FLOORING SHALL BE CAREFULLY COORDINATED WITH THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB JO ARCHITECTIENSIMEER FOR REVIEW PRIOR TO PLACING SL ARCHITECTIENSIMEER FOR REVIEW PRIOR TO PLACING SL ARCHITECTIENSIMEER FOR REVIEW PRIOR TO PLACING SL SE ARTH-FORMED FOOTINGS ARE ACCEPTABLE WHERES SOIL PERMIT (LE. WHERE THE BANKS OF THE EXCAVATION WILL WITHOUT CAVING AND SLOUGHING). HOWEVER, THE FLA OF EARTH- FORMED FOOTINGS MALL BE 5-4" SOLARE) SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON GO 10, REF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL & E JOINT LOCATIONS. PLAN LEGEND: FF DENOTES TOP OF FTG, SLAB, PIER BY' DENOTES TOUN OF FTG, GRADE CONTROLCONTRACTION JOINT TF24 -1'4" DENOTES FINH FLOOR TYZ DENOTES CMU FOUNDATION WALL EVEXTMENT STABAD ON GRADE THICKNONG SAMD ASON ALL CONTRACTORS ARE REFERENCED FROM THE FIRST FLOC LEVATION AS SPECTS ARE NOT IN THE SCOPE OF THESE DR FREF. ACCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN ALL LEVATIONS ARE REFERENCED FROM THE FIRST FLOC LEVATION SARE REFERENCED FROM THE FIRST FLOC LEVATION ARE REFERENCED FROM THE FIRST FLOC CONTRACTORS ARE REFERENCED FROM THE FIRST FLOC LEVATION AR SOLOR FOR TO CONSTRUCTION ALL CONTRACTORS ARE REFERENCED FROM THE FIRST FLOC CONTRACTOR TO CONSTRUCTION FLE AND WOR	AR ALSUE PRYTHTIELCOR EAPEWORDERS SUF RIO PL FILEO I	CHITECTUF L FOOTING STING AGE STING AGE COVIDE CON PICAL DETA ICK-SET TE LE (VCT) OR OORING SH DNTRACTOF CONT	RAL DRAW S SHALL B ARING MAT NCY. REF JTROL/CON AILS ON S4 (RRAZZO, 0 VINYL SHI IALL BE CA CONSINEER F ED FOOTIN (HERE THE AVING ANE ORMED FO CCOUNT F 2'-0" WIDE UMN FOOT N OF POLY WIRE FAB COURAL D ONS. D:	VINGS F EAR ON TERIAL , TYPIC, NTRACI 101). AL CERAMI EET GC AREFUL NTRAC FOR RE BANK D SLOUC OOTING FOR IN/ E BANK D SLOUC OOTING FOR IN/ E WALL TINGS S (PROPY BRIC IS F DWGS. F DENO DENO CONTF DENO REF. T DENO OPENI DENO	OR LOC/ A APPRC AS DETE AL FOOT TION JOI L JOINT: IC OR PC DODS, EF LY COOL TOR SH/ ZVIEW PF E ACCEI S OF TH GHING). S MUST ACCURA FOOTIN. GHALL BE (LENE FI PERMITT FOR MAS TES FIN. TES SLA ROL/COI TES SLA ROL/COI TES SLA ROL/COI TES SLA ROL/COI TES CMU TES CMU TES CMU	ATIONS VED SO ERMINEL TING UNI INTS IN S S IN SLA DRCELA POXY OF RDINATE ALL SUB RIOR TO PTABLE E EXCA' HOWEV BE INCI CIES AS GS SHAI E 5'-4" SC BER SE(TED FOR SONRY OF FLOOR P OF FTG TOM OF B ON GF VTRACTI SONRY OF LL FOOT ALL SOT	OF CMU W OIL. UNDER D BY THE G D ERCUT D SLABS ON G SLABS ON G SLABS TO REG IN TILE, VII R SIMILAR CONTROL S WHERE SC VATION WI VER, THE P REASED B' SSOCIATED LL BE 2'-4" QUARE). CONDARY R SLABS ON CONTROL S G, SLAB, PIE FTG, GRA RADE ION JOINT DOTING MA (REF. WALL SA01	AL CLUECCET. GREET.
 PROVIDE CONTROLICONTRACTION JOINTS IN SLABS ON GR TYPICAL DETAILS ON SA01). ALL JOINTS IN SLABS TO RECE TYPICAL DETAILS ON SA01). ALL JOINTS IN SLABS TO RECE TYPICAL DETAILS ON SA01). ALL JOINTS IN SLABS TO RECE THICK-SET TERRAZZO, CERMAIC OR PORCLAIN TLE, VIWY THE (VCT) OR VIWY, SHEET GOODS, EPOXY OR SMILLAR TH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE COORING SHALL BE CAREFULLY COORDINATED WITH THE FLOORING SHALL BE CAREFULLY COORDINATED WITH THE PENATT (IE. WHERE THE BANKS OF THE EXCANATION WILL WITHOUT CAVING AND SLOUGHING). HOWEVER, THE PLA OF EARTH-FORMED FOOTINGS MUST BE INCREASED BY 2 EDGES TO ACCOUNT FOR INACCURACIES ASSOCIATED W FORINING (IE. 2-0° WIDE WALL FOOTINGS SHALL BE 2-4° WI SOUARE COLUMN FOOTINGS SHALL BE 5-4° X00ARE). SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON G REF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL & E JOINT LOCATIONS. PLAN LEGEND: FF DENOTES TOP OF FTG, SLAB, PLE BY'Z DENOTES TOP OF FTG, SLAB, PLE BY'Z DENOTES TOP OF FTG, SLAB, PLE BY'Z DENOTES STOP OF FTG, SLAB, PLE BY'Z DENOTES TOP OF FTG, SLAB, PLE BY'Z DENOTES TOP OF FTG, SLAB, PLE BY'Z DENOTES SWALL FOOTING WIRH ST CONTROL/CONTRACTION JOINT TF24 -1'4" DENOTES CMU FOUNDATION WALL EXECUTED TO CONDINING WARK G'SLAB +0'0" CONTROL/CONTROL ARAMING AND MASON ALL CONTRACTORS ARE REQUIRED TO CONDINING WARK S'SLAB: 6x6-W2 1/W2.1 WWF S'SLAB: 6x6-W2 1/W2.1 WWF S'SLAB: AGAVE 1/W2.1 WWF S'SLAB: AGAVE 1/W2.1 WWF S'SLAB: AGAVE 1/W2.1 WWF S'SLAB: AGAVE 1/W2.1 WWF S'SLAB: AND WORK MAY NA ALL LEVATION SARE REFERENCED FROM THE FIRST FLOC ELEVATION +0'.0". VERIFY USGS ELEVATION WITH CIVIL OW ALL WALLS SHALL BE LAD OUT FROM THE ARCHTECTURAL NEE. ARCH. DRAWNINGS. FOR ALL DIMENSIONS NOT SHOWN SHALL VERY ALL DIMENSIONS PRIOR TO CONSTRUCTION MAEDIATELY NOTIFY ARCHITECT. HENDINGS ON THE SHOW SHOUNDE OFNICORS ON WALLS WITH THE MEP CONT LOCATION & SUED ON THAN INDICATE TOP OF STEE	5. PRYHTILFLOCAR APEWIOFELOS SLICE REJO PL FILE (I Z) 7. 3. 0. FILE (I	ROVIDE CON PICAL DETA IICK-SET TE E (VCT) OR OORING SH DNTRACTOF RCHITECT/EI RTH-FORMI RMIT (I.E. W THOUT C/ E ARTH- F DGES TO A DRMING (I.E. W THOUT C/ E ARTH- F DGES TO A DRMING (I.E. W THOUT C/ E ARTH- F DGES TO A DRMING (I.E. W THOUT C/ E ARTH- F DGES TO A DGES	ITROL/COM AILS ON S4 RRAZZO, (VINYL SHI IALL BE CA R. THE CO NGINEER F ED FOOTIN VHERE THE AVING AND CORMED F(CCOUNT F 2'-0" WIDE UMN FOOTIN N OF POLY WIRE FAB CCTURAL D ONS.):	NTRACI ID1). AL CERAMI EET GC AREFUL NTRAC FOR RE NGS AR E BANK D SLOUG OOTING FOR IN/ E WALL INGS S (PROPY BRIC IS F DWGS. F DENO DENO DENO CONTF DENO REF. T DENO OPENI DENO	TION JOI L JOINT: IC OR PC DODS, EF LY COOL TOR SH, EVIEW PF E ACCEL S OF TH GHING). SS MUST ACCURA FOOTIN SHALL BE (LENE FI PERMITT FOR MAS TES FIN. TES TOF TES BOT TES SLA ROL/CON TES TRE NG ELEV TES WAI TYP. DET TES CMU	INTS IN S S IN SLA DRCELA POXY OF RDINATE ALL SUB RIOR TO PTABLE E EXCA' BE INCI CIES AS GS SHAI 5'-4" SC IBER SEG IED FOR SONRY OF FLOOR P OF FTG TOM OF B ON GF NTRACT INCH FO VATION (LL FOOT	SLABS ON (ABS TO REC IN TILE, VII R SIMILAR T ED WITH TH MIT SLAB (PLACING S WHERE SC VATION WI VER, THE P REASED B' SSOCIATED LL BE 2'-4" QUARE). CONTROL S SOCIATED CONTROL S SLABS ON CONTROL S SLABS, PIE FTG, GRA RADE ION JOINT DOTING MA (REF. WALL S401	GR CEI I FII I FIII I FII I FII I FII I FII I FII I FII I FII I FII I FII I FI
THICK-SET TERRAZQ, CERAMIC OR PORCELAIN TILE, IVITY TLE (VCT) OR VINYL SHEET GOODS, EPOXY OR SIMILAR TH FLOORING SHALL BE CAREFULLY COORDINATED WITH THE CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB JO ARCHTECTRENCINEER FOR REVIEW PRIOR TO PLACING SU ARCHTECTRENCINEER FOR REVIEW PRIOR TO PLACING SU DERSTO ACCOUNT FOR INACCURACIES ASSOCIATED W OFARMING (LE. 2-0" WIDE WALL FOOTINGS SHALL BE 2-4" WI SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON G REF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL & E JOINT LOCATIONS. PLAN LEGEND: FF DENOTES FIN. FLOOR T7X' DENOTES SLAB ON GRADE GU DENOTES SLAB ON GRADE GU DENOTES CMU FOUNDATION WALL WEXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	THILLCAR EAPEWORDERS SUF REJOPL FILEO I	IICK-SET TE E (VCT) OR OORING SH DNTRACTOF RCHITECT/EI RTH-FORMI RTH-FORMI RTH-FORMI RTH-FORMI RTH-FORMI RTH-FORMI RTH-FORMI IRTHOUT C/ EARTH- F JGES TO A RMING (I.E. UARE COLU IBSTITUTION INT LOCATI AN LEGEND F 7/X' 3/X' CJ F24 -1'-4" 5"CONC. S ¹ CONC. S	RRAZZO, (VINYL SHI IALL BE CA A. THE CO NGINEER F ED FOOTIN (HERE THI AVING ANE ORMED FO CCOUNT F 2'-0" WIDE UMN FOOT N OF POLY WIRE FAB CTURAL E ONS.):	CERAMI EET GC AREFUL NTRAC FOR RE BANK D SLOUC OOTING FOR IN/ E WALL TINGS S (PROPY BRIC IS F DWGS. F DWGS. F DWGS. F DWGS. F DENO DENO CONTF DENO REF. T DENO OPENI DENO	IC OR PC DODS, EF LY COOI TOR SH/ VIEW PF E ACCEI S OF TH GHING). S MUST ACCURA FOOTIN SHALL BE (LENE FI PERMITT FOR MAS TES FIN. TES TOF TES SLA ROL/COI TES TRE NG ELEV TES WAI TES CMU TES CMU	DRCELA DOXY OF RDINATE ALL SUB RIOR TO PTABLE E EXCA' HOWE\ BE INCI CIES AS GS SHAI 5'-4" SC GS SHAI 5'-4" SC IBER SEI FED FOR SONRY (FLOOR P OF FTG TOM OF B ON GF VTRACTI SNCH FO VATION (LL FOOT CAIL ON S	IN TILE, VIN R SIMILAR ED WITH TH SMIT SLAB (PLACING (WHERE SC VATION WI VER, THE P REASED B' SOCIATED LL BE 2'-4" QUARE). CONDARY REASED B' CONTROL (CONTROL	NYLHEIOLA DILLA 2 WI REG E ELDE RK F STI
CONTRACTOR. THE CONTRACTOR SHALL SUBMIT SLAB JO ARCHITECT/ENGINEER FOR REVIEW PRIOR TO PLACING SU EARTH-FORMED FOOTINGS ARE ACCEPTABLE WHERE SOIL PERMIT (I.E. WHERE THE BANKS OF THE EXCAVATION WILL WITHOUT CAVING AND SLOUGHING). HOWEVER, THE PLA OF EARTH-FORMED FOOTINGS MUST BE INCREASED BY 2 EDGES TO ACCOUNT FOR INACCURACIES ASSOCIATED W FORMING (I.E. 2-0' WIDE WALL FOOTINGS SHALL BE 2-4'' WI SOUARE COLUMN FOOTINGS SHALL BE 5-4'' SOUARE). SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON G REF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL & E JOINT LOCATIONS. PLAN LEGEND: FF DENOTES FIN. FLOOR T7/Y DENOTES BOTTOM OF FTG, GRADE GU DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT TF24 -1'-4' DENOTES SILA ON GRADE GU DENOTES SLAB ON GRADE GU DENOTES SLAB ON GRADE GU DENOTES SLAB ON GRADE GU DENOTES SLAB ON GRADE GU DENOTES CMU FOUNDATION WALL DENOTES CMU FON. WALL HELD D OPENINGS 5' CONC. SOG T/SLAB +0'0' DENOTES CMU FON. WALL HELD D OPENINGS 5' SLAB: 6x6-W2.1xW2.1 WWF	CCAR APEWIOFLEGS SUC AR A PEWIOFLEGS AND A	DNTRACTOF RCHITECT/EI RTH-FORMI RMIT (I.E. W THOUT C/ EARTH- F JGES TO A RMING (I.E. QUARE COLU IBSTITUTION IN WELDED INT LOCATI AN LEGEND F 7/X' 3/X' CJ F24 -1'-4" 5" CONC. S ¹	R. THE CO NGINEER F ED FOOTIN (HERE THE AVING ANE ORMED FO (CCOUNT F 2'-0" WIDE UMN FOOT N OF POLY WIRE FAB CTURAL E ONS. D:	NTRAC FOR RE NGS AR E BANK D SLOU(OOTING FOR IN/ E WALL INGS S (PROPY BRIC IS F DWGS. F DWGS. F DWGS. F DENO DENO CONTF DENO REF. T DENO OPENI DENO OPENI DENO	TOR SH/ EVIEW PF E ACCEI S OF TH GHING). S MUST ACCURA FOOTIN SHALL BE (LENE FI PERMITT FOR MAS TES FIN. TES TOF TES BOT TES SLA ROL/CON TES TRE NG ELEV TES WAI 'YP. DET TES CMU TES CMU	ALL SUB RIOR TO PTABLE E EXCA' HOWE\ BE INCI CIES AS GS SHAI 5'-4" SC BER SE(TED FOR SONRY (P OF FTG TOM OF B ON GF NTRACTI SOL FOOT CALL FOOT	BMIT SLAB PLACING WHERE SC VATION WI VER, THE P REASED B' SSOCIATED LL BE 2'-4" QUARE). CONDARY & SLABS ON CONTROL & CONTROL	JOI SLA DIL V WI REG ER, DE RK F STI
Searth-Formed Footings are acceptable where soil PERMIT (I.E. WHERE THE BANKS OF THE EXCAVATION WILL WITHOUT CAVING AND SLOUGHING), HOWEVER, THE PLA OF EARTH- FORMED FOOTINGS MUST BE INCREASED BY 2 EDGES TO ACCOUNT FOR INACCURACIES ASSOCIATED W SOUARE COLUMN FOOTINGS SHALL BE 5'-4' SQUARE). SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON C B. REF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL & E JOINT LOCATIONS. PLAN LEGEND: FF DENOTES FIN. FLOOR TY2' DENOTES BOTTOM OF FTG, GRADE CONTROL/CONTRACTION JOINT TF24 -1'-4'' DENOTES FIN. FLOOR TY2' DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT TF24 -1'-4'' DENOTES TRENCH FOOTING MARK FOOTING ELEVATION (REF. WALL F DENOTES SLAB ON GRADE TYSLAB +0.0'' DENOTES CMU FON. WALL HELD D OPENINGS 5' CONC. SOG TISLAB +0.0'' DENOTES CMU FON. WALL HELD D OPENINGS F' CONC. SOG TISLAB +0.0'' DENOTES CMU FON. WALL HELD D DISCIPLIES TO AVOID CONFLICTS. THE MECHANICAL, ELE PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE PR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY NA ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOC. COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICA REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN SHALL VERIFY ALL BE LAID OUT FROM THE ARCHITECTURAL REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN SHALL VERIFY ALCHTECTURENIES FOR THOR TO ROSTRUCTION. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL PROVIDE CMU REINFORCING AS NOTED ON PLANS. IS FORM NOTED OTHERWISE. PROVIDE CMU REINFORCING AS NOTED	5. EAPEWIOFECS FOR SUCTION FILES SUCTION FILES FOR THE CONTRACT SUCTION FILES FOR THE CONTRACT SUCTION FILES FOR THE ALL S	RTH-FORMI RMIT (I.E. W THOUT CA EARTH- F DGES TO A RMING (I.E. QUARE COLU IBSTITUTION R WELDED INT LOCATI AN LEGEND F 7/X' 3/X' CJ F24 -1'-4" 	ED FOOTIN VHERE THI AVING ANE ORMED FO ACCOUNT I 2'-0" WIDE UMN FOOT N OF POLY WIRE FAB CTURAL D ONS. D:	NGS AR E BANK O SLOUO OOTING FOR IN/ E WALL INGS S (PROPY BRIC IS I DWGS. F DWGS. F DENO DENO DENO CONTF DENO REF. T DENO REF. T DENO OPENI DENO	E ACCEI S OF TH GHING). S MUST ACCURA FOOTIN HALL BE (LENE FI PERMITT FOR MAS TES FIN. TES TOF TES BOT TES SLA ROL/CON TES TRE NG ELEV TES WAI 'YP. DET TES CMU	PTABLE E EXCAV HOWEV BE INCI CIES AS GS SHAI 5'-4" SC IBER SEC TED FOR SONRY C P OF FTC TOM OF B ON GF NTRACTI SNCH FO VATION (LL FOOT	WHERE SO VATION WI VER, THE P REASED B' SOCIATED LL BE 2'-4" QUARE). CONDARY & SLABS ON CONTROL & CONTROL	CIL LLAY WI REG & E ST
OF EARTH-FORMED FOOTINGS MUST BE INCREASED BY 2 EDGESTO ACCOUNT FOR INACCURACIES ASSOCIATED W FORMING (LE 2-0" WIDE WALL FOOTINGS SHALL BE 5-4" SQUARE). SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS OND (S) JOINT LOCATIONS. PLAN LEGEND: FF DENOTES FIN. FLOOR T/Y. DENOTES FIN. FLOOR T/Y. DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT TF24 - 1'-4" DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT TF24 - 1'-4" DENOTES CMU FOUNDATION WALL DENOTES CMU FOUNDATION WALL EXEXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	OFECSS FC SU FC SU P. FT EC FC FC F	EARTH- F DGES TO A DRMING (I.E. DUARE COLI DIBSTITUTION DR WELDED DINT LOCATI AN LEGEND F 7/X' DJ F24 -1'-4" 	ORMED F(ACCOUNT I 2'-0" WIDE UMN FOOT N OF POLY WIRE FAB CTURAL D ONS. D:	DOTING FOR IN/ WALL INGS S (PROPY BRIC IS F DWGS. F DWGS. F DENO DENO DENO CONTF DENO FOOTI DENO REF. T DENO OPENI DENO	SS MUST ACCURA FOOTIN HALL BE (LENE FI PERMITT FOR MAS TES FIN. TES TOF TES BOT TES SLA ROL/COP TES SLA ROL/COP TES TRE NG ELE TES WAI "YP. DET TES CMI TES CMI	E INCI CIES AS GS SHAI 5'-4" SC BER SEC FED FOR SONRY C FLOOR OF FTG TOM OF B ON GF NTRACTI SNCH FO VATION (LL FOOT TAIL ON S	REASED B' SSOCIATED LL BE 2'-4" QUARE). CONDARY SLABS ON CONTROL & CONTROL &	Y 2 WI REG & E LDE RK L F
FORMING (I.E. 2-0" WIDE WALL FOOTINGS SHALL BE 2-4" WIJ SQUARE COLUMN FOOTINGS SHALL BE 5-4" SQUARE). 7. SUBSTITUTION OF POLYPROPYLENE FIBER SECONDARY RE FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON G 8. REF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL & E JOINT LOCATIONS. 9. PLAN LEGEND: FF DENOTES FIN. FLOOR T7/X DENOTES SOTO OF FTG, SLAB, PIER B/X DENOTES SLAB ON GRADE CJ DENOTES SLAB ON GRADE CJ DENOTES SLAB ON GRADE CONTROLICONTRACTION JOINT TF24 -1'-4" DENOTES CMU FOUNDATION (WALL DENOTES CMU FOUNDATION WALL DENOTES SLAB ON GRADE THICKN S' CONC. SOG TISLAB +0-0" DENOTES SLAB ON GRADE THICKN S' CONC. SOG TISLAB +0-0" DENOTES SLAB ON GRADE THICKN S' CONC. SOG TISLAB +0-0" DENOTES SLAB ON GRADE THICKN REF. SOUI & SOU2 FOR STRUCTURAL NOTES, DESIGN DATA. REF. <tr< td=""><td>FC SC SC FC SC FC FC F</td><td>DRMING (I.E. QUARE COLI JBSTITUTIOI DR WELDED FF. ARCHITE INT LOCATI AN LEGEND FF. ZJ TF24 -1'-4" </td><td>2'-0" WIDE UMN FOOT N OF POLY WIRE FAB CTURAL D ONS. D: D: D: D: D: D: D: D: D: D: D: D: D:</td><td>E WALL INGS S (PROPY BRIC IS I DWGS. F DENO DENO DENO CONTE DENO FOOTI DENO REF. T DENO OPENI DENO</td><td>FOOTIN GHALL BE (LENE FI PERMITT FOR MAS TES FIN. TES TOF TES BOT TES SLA ROL/COP TES TRE NG ELE TES WAI TES WAI TES CMI TES CMI</td><td>GS SHAI 5'-4" SC IBER SE IED FOR SONRY (P OF FTG TOM OF B ON GF NTRACTI SNCH FO VATION (LL FOOT TAIL ON S</td><td>LL BE 2'-4" QUARE). CONDARY SLABS ON CONTROL & CONTROL &</td><td>RE RE RE RE RE RE RE RE RE RE RE RE RE R</td></tr<>	FC SC SC FC SC FC FC F	DRMING (I.E. QUARE COLI JBSTITUTIOI DR WELDED FF. ARCHITE INT LOCATI AN LEGEND FF. ZJ TF24 -1'-4" 	2'-0" WIDE UMN FOOT N OF POLY WIRE FAB CTURAL D ONS. D: D: D: D: D: D: D: D: D: D: D: D: D:	E WALL INGS S (PROPY BRIC IS I DWGS. F DENO DENO DENO CONTE DENO FOOTI DENO REF. T DENO OPENI DENO	FOOTIN GHALL BE (LENE FI PERMITT FOR MAS TES FIN. TES TOF TES BOT TES SLA ROL/COP TES TRE NG ELE TES WAI TES WAI TES CMI TES CMI	GS SHAI 5'-4" SC IBER SE IED FOR SONRY (P OF FTG TOM OF B ON GF NTRACTI SNCH FO VATION (LL FOOT TAIL ON S	LL BE 2'-4" QUARE). CONDARY SLABS ON CONTROL & CONTROL &	RE RE RE RE RE RE RE RE RE RE RE RE RE R
FOR WELDED WIRE FABRIC IS PERMITTED FOR SLABS ON G. 8. REF. ARCHITECTURAL DWGS. FOR MASONRY CONTROL & E JOINT LOCATIONS. 9. PLAN LEGEND: FF DENOTES FIN. FLOOR T/X' DENOTES SLAB ON GRADE CJ DENOTES SLAB ON GRADE CONTROLCONTRACTION JOINT TE24 -1'-4" DENOTES TRENCH FOOTING MARK FOOTING ELEVATION (REF. WALL F T T DENOTES CALL FOOTING WIRK ST FE. TYP. DETAIL ON S401 ZZZZZZZZ DENOTES CALL FOOTING WIRK ST DENOTES SLAB ON GRADE THICKN T T DENOTES SLAB ON GRADE THICKN ZZZZZZZZ DENOTES SLAB ON GRADE THICKN DENOTES SLAB ON GRADE THICKN DENOTES SLAB ON GRADE THICKN ZZZZZZZZ DENOTES SLAB ON GRADE THICKN S'SLAB: 6x6-W2.1xW2.1 WWF S'SLAB: 6x6-W2.1xW2.1 WWF FREF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASON ALL ELEVATION SARE REFERENCED FROM THE FIRST FLOOC ELEVATION HOLOCONDINATE THEIF DISCIPLIES TO AVOID CONFLICTS. THE MECHANICAL, ELE PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY N ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOOC LELEVATION SHA	FC 8. RE JO 9. PL 1 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1	DR WELDED F. ARCHITE INT LOCATI AN LEGEND F. 7/X' 3/X' CJ F24 -1'-4" 	WIRE FAB	DENO DENO DENO DENO DENO DENO CONTE DENO REF. T DENO DENO OPENI DENO	PERMITT FOR MAS TES FIN. TES TOF TES BOT TES SLA ROL/CON TES TRE NG ELEV TES WAI TYP. DET TES CMU TES CMU	FLOOR POFTO OF FTO TOM OF B ON GF NTRACT NCH FO VATION (LL FOOT AIL ON S	R SLABS ON CONTROL & FTG, GRA RADE ION JOINT DOTING MA (REF. WALI S401	N G & E ER, DE RK L F ST
 JOINT LOCATIONS. PLAN LEGEND: FF T/X' DENOTES FIN. FLOOR T/X' DENOTES STOP OF FTG, SLAB, PIER B/X' DENOTES SLAB ON GRADE CONTROLICONTRACTION JOINT TE24 -1'-4" DENOTES TRENCH FOOTING MARK FOOTING ELEVATION (REF. WALL F T T DENOTES CAU FOOTING WITH ST REF. TYP. DETAIL ON S401 DENOTES CMU FOUNDATION WALL DENOTES CMU FOUNDATION WALL DENOTES CMU FON. WALL HELD DI OPENINGS S' CONC. SOG DENOTES SLAB ON GRADE THICKM ELEVATION. ALL SLABS ON GRADE THICKM ELEVATION. ALL SLABS ON GRADE THICKM S'SLAB +0'-0" DENOTES SLAB ON GRADE THICKM ELEVATION. ALL SLABS ON GRADE THICKM S'SLAB: 6x6-W2.1xW2.1 WWF S' CONC. SOG TISLAB +0'-0" DENOTES SLAB ON GRADE THICKM S'SLAB: 6x6-W2.1xW2.1 WWF REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASON ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELE PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY N ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOCE ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DW ALL ELEVATIONS SARE REFERENCED FROM THE FIRST FLOCE ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DW ALL UNELY NOTTY ARCHITECT/ENGINEER OF ANY DISCR COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICA FLOOR SLAB. ROOT DECONSTRUCTION. A	JO 9. PL 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	INT LOCATI AN LEGEND FF 7/X' 3/X' CJ F24 -1'-4" 	ONS.): ZZZ OG	DENO DENO DENO CONTE DENO FOOTI DENO REF. T DENO OPENI DENO	TES FIN. TES TOF TES BOT TES SLA ROL/COM TES TRE NG ELEV TES WAI TES WAI TES CMU TES CMU	FLOOR OF FTG TOM OF B ON GF NTRACT NCH FO VATION (LL FOOT AIL ON S	G, SLAB, PIE FTG, GRA RADE ION JOINT OOTING MA (REF. WALI TING WITH S S401	ER, JDE RK L F ST
FF DENOTES FIN. FLOOR T/X' DENOTES TOP OF FTG, SLAB, PIER B/X DENOTES SOP OF FTG, SLAB, PIER B/X DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT TF24 -1'-4" DENOTES STRENCH FOOTING WARK POUNTING ELEVATION (REF. WALL F DENOTES WALL FOOTING WITH ST REF. TYP. DETAIL ON S401 ZZZZZZZZ DENOTES CMU FOUNDATION WALL DENOTES CMU FOUNDATION WALL DENOTES CMU FOUNDATION WALL ZZZZZZZZ DENOTES SLAB ON GRADE THICKN S' CONC. SOG DENOTES SLAB ON GRADE THICKN T/SLAB +0'-0" DENOTES SLAB ON GRADE THICKN BARRIERRETARDER PER SPECS. FOLLOWING WELDED WIRE FABRIC S' CONC. SOG DENOTES SLAB ON GRADE THICKN S' SLAB: 6x6-W2.1xW2.1 WWF S' SLAB: 6x6-W2.1xW2.1 WWF ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIF DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, LEUE PLOWING SAPPECTS ARE NOT IN THE SCOPE OF THESE OR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY N ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOC ELEVATION 40'0'. VERY VISCS ELEVATION WITH CIVIL DW ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAI REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOW	F 1 E C T	F 7/X' 3/X' 5/ F24 -1'-4" 5" CONC. S ¹	 ZZZ SA OG	DENO DENO CONTE DENO FOOTI DENO REF. T DENO OPENI DENO	TES TOF TES BOT TES SLA ROL/CON TES TRE NG ELE\ TES WAI 'YP. DET TES CMU TES CMU	P OF FTG TOM OF B ON GF NTRACT NCH FO VATION (LL FOOT TAIL ON S	6, slab, pie F FTG, gra Rade Ion Joint Doting Ma (Ref. Wali Ting With 5 S401	IDE RK L F STI
B/X' DENOTES BOTTOM OF FTG, GRADE CJ DENOTES SLAB ON GRADE CONTROL/CONTRACTION JOINT TF24 -1'4" TF24 -1'4" DENOTES TRENCH FOOTING MARK FOOTING ELEVATION (REF. WALL F DENOTES WALL FOOTING WITH ST REF. TYP. DETAIL ON S401 DENOTES CMU FOUNDATION WALL DENOTES CMU FOUNDATION WALL DENOTES CMU FON. WALL HELD D OPENINGS DENOTES SLAB ON GRADE THICKN S' CONC. SOG DENOTES SLAB ON GRADE THICKN FISLAB +0'-0" DENOTES SLAB ON GRADE THICKN BARRIERRETARDER PER SPECS. FOLLOWING WELDED WIRE FABRIC S' CONC. SOG DENOTES SLAB ON GRADE THICKN S' SLAB: 6x6-W2.1xW2.1 WWF S' SLAB: 6x6-W2.1xW2.1 WWF	E C 1 - - - - - - - - - - - - -	S/X' CJ S" CONC. Si		DENO DENO CONTE DENO FOOTI DENO REF. T DENO OPENI DENO	TES BOT TES SLA ROL/CON TES TRE NG ELE TES WAI TES WAI TES CMU TES CMU	TOM OF B ON GF NTRACT NCH FO VATION (LL FOOT AIL ON S	FFTG, GRA Rade Ion Joint Ooting Ma (Ref. Wali Ting With 5 S401	.DE RK _ F ST
TF24 -1'-4" DENOTES TRENCH FOOTING MARK FOOTING ELEVATION (REF. WALL F Image: Strength of the	F RE RE AL DISPLETION AL			DENO [°] FOOTI DENO [°] REF. T DENO [°] OPENI DENO [°]	TES TRE NG ELE\ TES WAI TES DET TES CMI TES CMI	ENCH FO Vation (Ll foot Tail on S	ooting Ma (Ref. Wali Ting With 5 S401	_ F ST
DENOTES WALL FOOTING WITH ST REF. TYP. DETAIL ON S401 ZZZZZZZZZ DENOTES CMU FOUNDATION WALL DENOTES CMU FOUNDATION WALL DENOTES CMU FOUNDATION WALL DENOTES CMU FON. WALL HELD DI OPENINGS 5" CONC. SOG T/SLAB +0'-0" DENOTES SLAB ON GRADE THICKN BARRIERRETARDER PER SPECS. FOLLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF FRAMING PLAN NOTES REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONI ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIF DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELE PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY N ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOC ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DW ALL WALLS SHALL BE LAD OUT FROM THE ARCHITECTURAL REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCF COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICA FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOOR SLAB, ROOF DECK, OR WALLS WITH TH	F R E R E R E AL B S PL T H AL			DENO REF. T DENO DENO OPENI DENO	TES WAI TYP. DET TES CMI TES CMI	LL FOOT AIL ON S	TING WITH S S401	ST
DENOTES CMU FOUNDATION WALL DENOTES CMU FOUNDATION WALL DENOTES CMU FON. WALL HELD DO OPENINGS 5" CONC. SOG T/SLAB +0:0" DENOTES SLAB ON GRADE THICKN ELEVATION. ALL SLABS ON GRADE THICKN BARRIER/RETARDER PER SPECS. FOLLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF FRAMING PLAN NOTES REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONI ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIF DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELE PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY N ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOC ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DW ALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCF COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICA FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. S VERIFIED PRIOR TO CONSTRUCTION. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL NOTED OTHERWISE. PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OR SECTIONS, MINIMUM CMU WALL REINFORCING TO BE #E PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OR SECTIONS, MINIMUM CMU WALL REINFORCING TO BE #E PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OPENINGS AND PROVIDE ADDITIONAL VERTS. AT ENDS OF D. ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LIN OPENINGS, SHALL BE "OPEN-CORE" BOND BEAMS TO ALLOY RE	F R R R R R R R R R R R R R R R R R R R	5" CONC. S	272 XIII 0G	DENO DENO OPENI DENO	TES CMI TES CMI			\LL
DENOTES CMU FDN. WALL HELD D OPENINGS 5" CONC. SOG T/SLAB +0'-0" DENOTES SLAB ON GRADE THICKN ELEVATION. ALL SLABS ON GRADE 6" MIN. COMPACTED GRANULAR FI BARRIER/RETARDER PER SPECS. FOLLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONI ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIF DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELE PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DOR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY N ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOC ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DW ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAI REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCR COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICA FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. S VERIFIED PRIOR TO CONSTRUCTION. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL NOTED OTHERWISE. PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OR SECTIONS, MINIMUM CMU WALL REINFORCING TO BE #20 PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OR SECTIONS, MINIMUM CMU WALL REINFORCING TO BE #20 PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OR SECTIONS, MINIMUM CMU WALL REINFORCING TO BE #20 PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OR SECTIONS, MINIMUM CMU WALL REINFORCING TO BE #20 PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OR SECTIONS, MINIMUM CMU WALL REINFORCING TO BE #20 PROVIDE OPEN-CORE BOND BEAMS AT TOPS OF WALLS, AT THICKNESS, AND WHERE INDICATED ON PLANS. & SECTIONS VERTICAL SPACING). PROVIDE ADDITIONAL VERTS. AT ENDS OF ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LIN OPENINGS SHALL BE "OPEN-CORE" BOND BEAMS TO ALLO REINFORCING TO PASS THROUGH, UNLESS NOTED OTHERWI PLAN LEGEND: FF DENOTES FIN, FLOOR T/X' DENOTES TOP OF STEEL, SLAB, ET	F RE RE ALL PL H AL	5" CONC. S	ST OG	DENO ⁻ OPENI DENO ⁻	TES CMI			- L
5" CONC. SOG T/SLAB +0'-0" DENOTES SLAB ON GRADE THICKM ELEVATION. ALL SLABS ON GRADE 6" MIN. COMPACTED GRANULAR FII BARRIER/RETARDER PER SPECS. FOLLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF FRAMING PLAN NOTES FOLLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF SLAB: 6x6-W2.1xW2.1 WWF MIN. COMPACTED GRANULAR FII BARRIER/RETARDER PER SPECS. FOLLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF COLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF MIN. COMPACTED SPECIAL STATE REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONI ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIP DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELE PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY N ALL ELEVATION ARE REFERENCED FROM THE FIRST FLOC ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DW ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCF COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICA FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. S VERIFIED PRIOR TO CONSTRUCTION. ALL LEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL NOTED OTHERWISE. PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OPENINGS SHOWN ON PLAN INDICATE TOP OF STEEL NOTED OTHERWISE. PROVIDE CMU REINFORCING TO BE #E PROVIDE CMU REINFORCING AS NOTED ON PLANS & SECTIONS VERTIFLE PROVIDE ADDITIONAL VE	F RE RE ALIX PL TH AL			DENO	1011 A.	U FDN. V	VALL HELD	D
T/SLAB +0'-0" ELEVATION. ALL SLABS ON GRADE 6" MIN. COMPACTED GRANULAR FI BARRIER/RETARDER PER SPECS. FOLLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF FORLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF FORLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONI ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIF DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELE PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY N ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOC ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DW ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCF COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICA FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. S VERIFIED PRIOR TO CONSTRUCTION. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL NOTED OTHERWISE. PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OR SECTIONS, MINIMUM CMU WALL REINFORCING TO BE #E PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OPENINGS AND PROVIDE ADDITIONAL VERTS. AT ENDS OF ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LIN OPENINGS AND PROVIDE ADDITIONAL VERTS. AT ENDS OF ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LIN OPENINGS, SHALL BE "OPEN-CORE" BOND BEAMS TO ALLO' REINFORCING TO PASS THROUGH, UNLESS NOTED OTHER' 1. REF. ARCH. DWGS. FOR MASONRY CONTROL & EXPANSION 2. PLAN LEGEND: FF	F RE RE ALIX PL TH AL			-	TES SLA			
FOLLOWING WELDED WIRE FABRIC 5" SLAB: 6x6-W2.1xW2.1 WWF STAB: 6x6-W2.1xW2.1 WWF FRAMING PLAN NOTES REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONI ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIF DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELE PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY N ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOCE ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DW ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAU REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCR COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICA FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. S VERIFIED PRIOR TO CONSTRUCTION. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL NOTED OTHERWISE. PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OR SECTIONS, MINIMUM CMU WALL REINFORCING TO BE # FONDIDE ADDITIONAL VERTS. AT ENDS OF ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LIN OPENINGS AND PR	RE RE AL DIS PL TH AL		-	6" MIN	TION. A	ALL SLAE	3S ON GRA GRANULAR	De Fil
FRAMING PLAN NOTES REF. S001 & S002 FOR STRUCTURAL NOTES, DESIGN DATA, REF. THE S400 SERIES FOR TYPICAL FRAMING AND MASONI ALL CONTRACTORS ARE REQUIRED TO COORDINATE THEIR DISCIPLINES TO AVOID CONFLICTS. THE MECHANICAL, ELE PLUMBING ASPECTS ARE NOT IN THE SCOPE OF THESE DR THEREFORE, ALL REQUIRED MATERIALS AND WORK MAY N ALL ELEVATIONS ARE REFERENCED FROM THE FIRST FLOCE ELEVATION +0'-0". VERIFY USGS ELEVATION WITH CIVIL DW ALL WALLS SHALL BE LAID OUT FROM THE ARCHITECTURAL REF. ARCH. DRAWINGS. FOR ALL DIMENSIONS NOT SHOWN SHALL VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION IMMEDIATELY NOTIFY ARCHITECT/ENGINEER OF ANY DISCR COORDINATE EXACT SIZE & LOCATION OF ANY MECHANICA FLOOR SLAB, ROOF DECK, OR WALLS WITH THE MEP CONT LOCATION & SIZE OF ALL DUCT OPENINGS, GRILLES, ETC. S VERIFIED PRIOR TO CONSTRUCTION. ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL NOTED OTHERWISE. PROVIDE CMU REINFORCING AS NOTED ON PLANS. IF NOT OP SECTIONS, MINIMUM CMU WALL REINFORCING TO BE #Z PROVIDE CMU REINFORCING AS NOTED ON PLANS & SECTIONS VERTICAL SPACING). PROVIDE 1/2 OF INTERRUPTED VERTION OPENINGS AND PROVIDE ADDITIONAL VERT'S. AT ENDS OF 1. ALL MASONRY BOND BEAMS, OTHER THAN BOND BEAM LIN	RE AL DIS PL TH AL			FOLLC	OWING W	VELDED	WIRE FAB	
REINFORCING TO PASS THROUGH, UNLESS NOTED OTHER 1. REF. ARCH. DWGS. FOR MASONRY CONTROL & EXPANSION 2. PLAN LEGEND: FF DENOTES FIN. FLOOR T/X' DENOTES TOP OF STEEL, SLAB, ET	REE SH IMI CCC FL LO VE AL NO PR OF PR TH VE OF P. AL	EF. S001 & S EF. THE S400 L CONTRAC SCIPLINES T UMBING AS IEREFORE, . L ELEVATIO EVATION +(L WALLS SF EF. ARCH. DI IALL VERIFY MEDIATELY OORDINATE OOR SLAB, ICATION & S ERIFIED PRIC L ELEVATIO DTED OTHEF ROVIDE CML R SECTIONS ROVIDE OPE IICKNESS, A RTICAL SPA PENINGS AN L MASONRY	002 FOR S 0 SERIES F CTORS ARE FO AVOID (PECTS AR ALL REQU INS ARE R 0'-0". VERII HALL BE LA RAWINGS. (ALL DIME NOTIFY AI EXACT SIZ ROOF DEC SIZE OF AL OR TO COM INS SHOW RWISE. J REINFOR S, MINIMUM IN-CORE B IND WHER ACING). PF ID PROVID F BOND BE	TRUCTI FOR TYPE E REQU CONFLIC RED M. EFEREN FY USG AID OUT FOR AI SNSIONS RCHITE ZE & LO CK, OR ' L DUCT NSTRUC 'N ON P RCING A M CMU V SOND BE ROVIDE E ADDI' EAMS, C	URAL NO PICAL FF JIRED TC CTS. TH IN THE S ATERIAL NCED FF S ELEV/ T FROM T LL DIMEI S PRIOR CT/ENG CATION WALLS N OPENIN CTION. LAN IND S NOTE NALL RE EAMS AT CATED O E 1/2 OF I TIONAL N DTHER T	DTES, DI RAMING COORE IE MECH SCOPE C SCOPE C	AND MASC DINATE THI IANICAL, E DF THESE I WORK MAY E FIRST FLI (ITH CIVIL I CHITECTUF NOT SHOV VSTRUCTIC DF ANY DIS MECHANI IE MEP COI ILLES, ETC OP OF STE ANS. IF NO CING TO BE DF WALLS, S & SECTIC JP TED VEF AT ENDS C ND BEAM L	NIFLER OW AL NNC CAT S EL T # ANNTH OF IN
T/X' DENOTES TOP OF STEEL, SLAB, ET	RE 1. RE	EINFORCING F. ARCH. D	TO PASS WGS. FOR	THROU	JGH, UNI	LESS NO	OTED OTHE	ER
				DENO	TES TOP	OF STE	EEL, SLAB,	





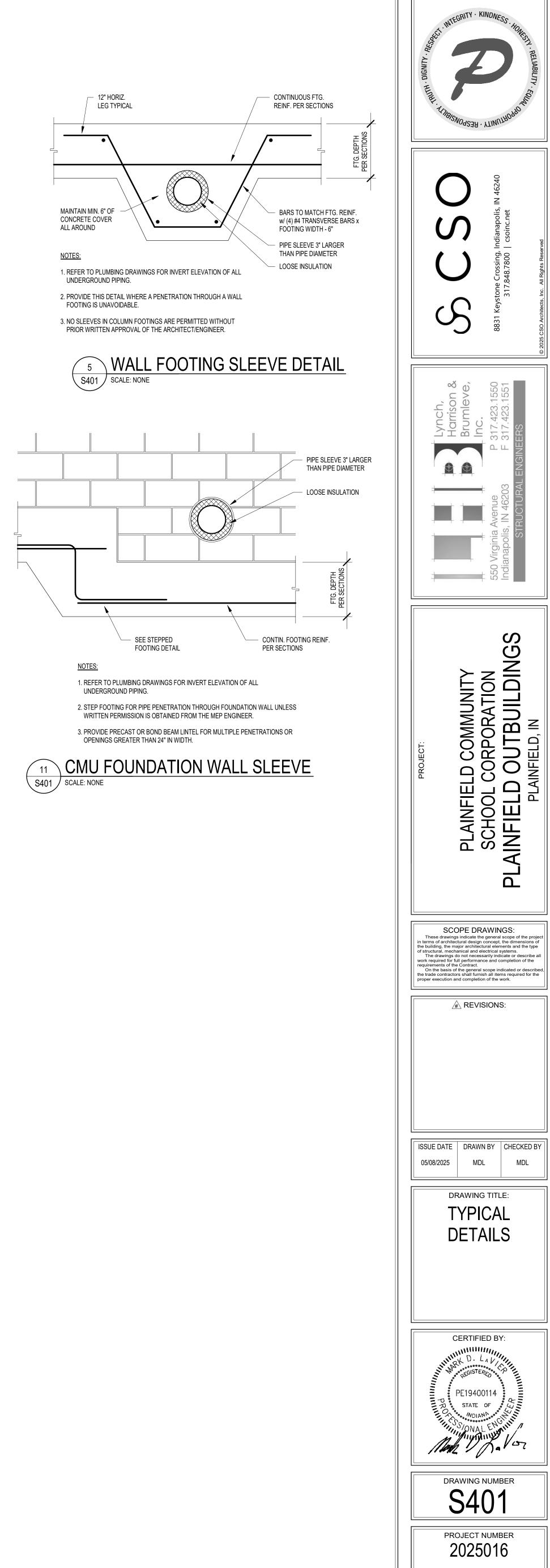




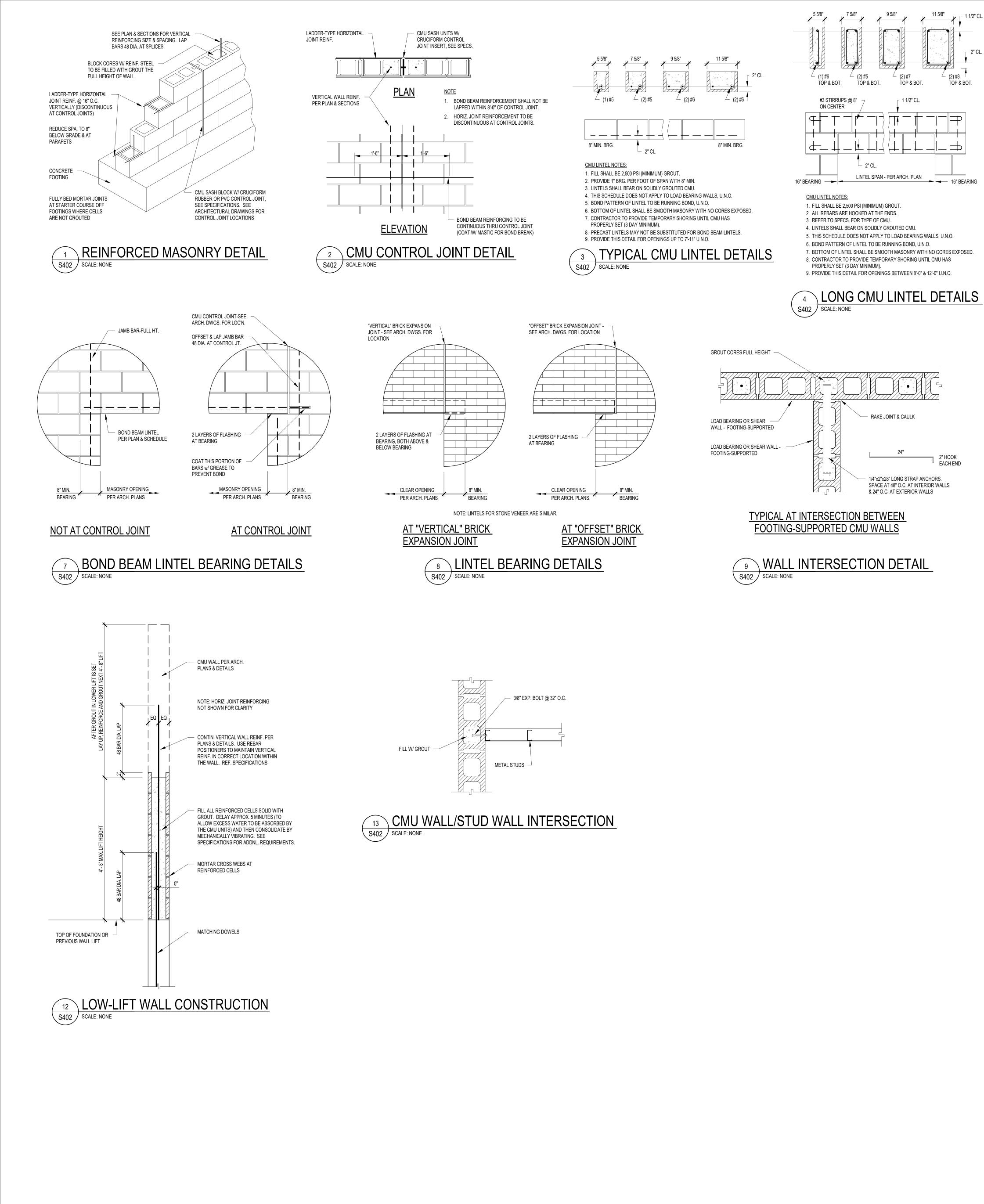
1.0

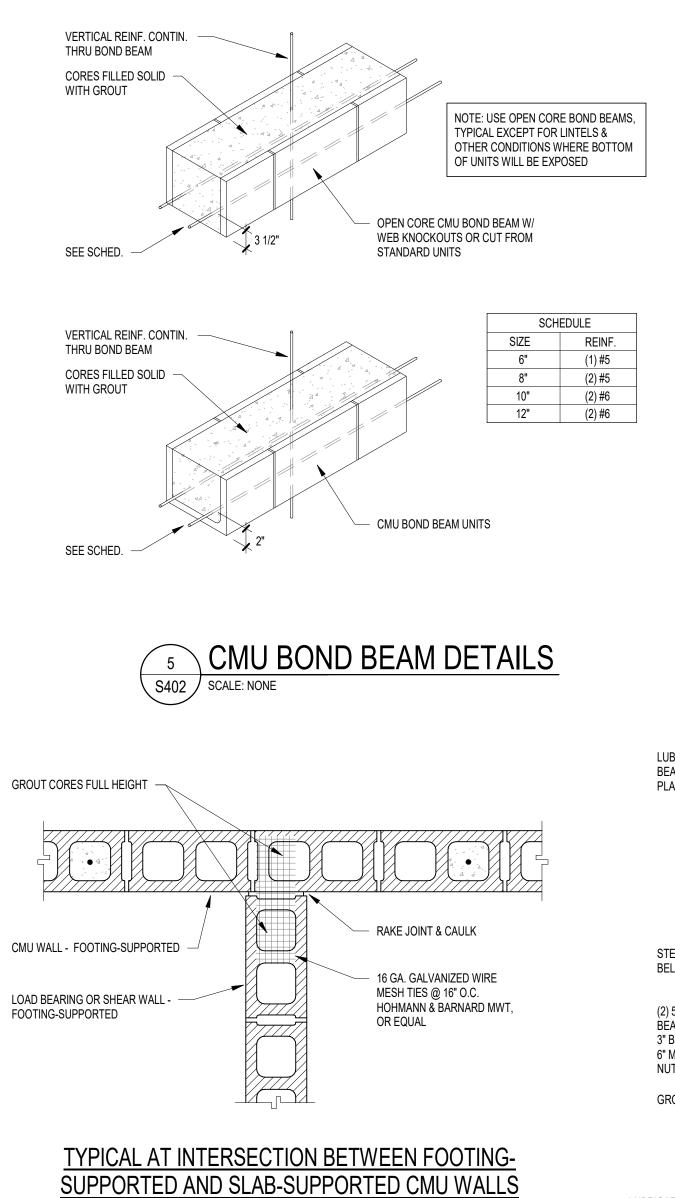
- REINF. PER PLAN & SCHEDULE

SLAB CONSTRUCTION JOINT

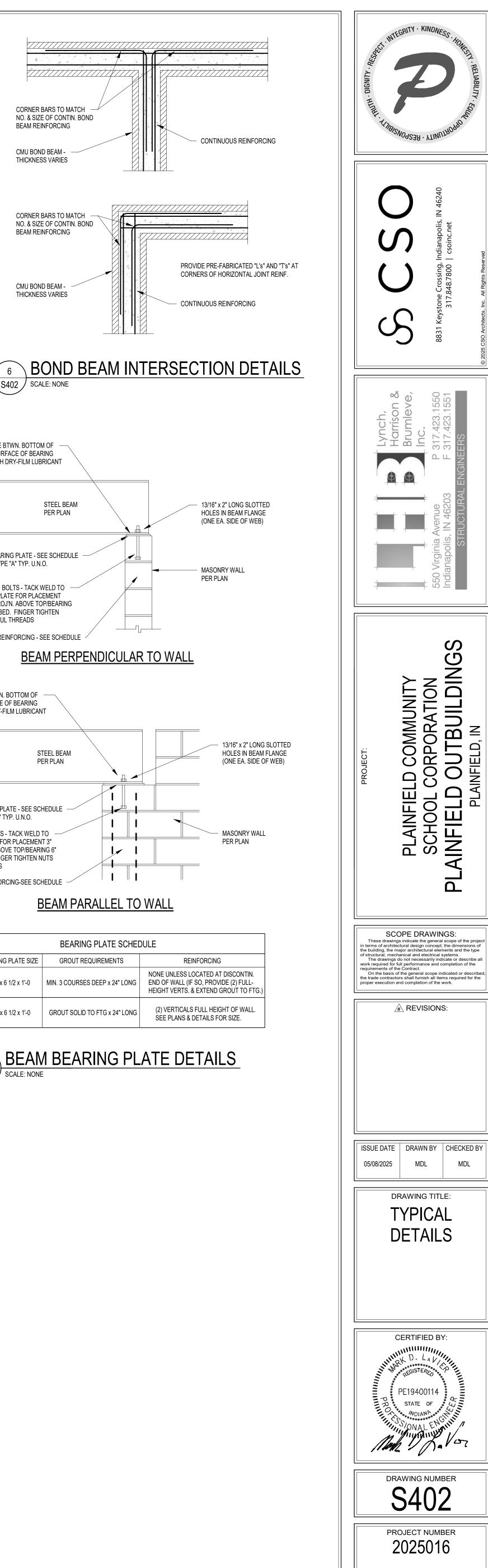


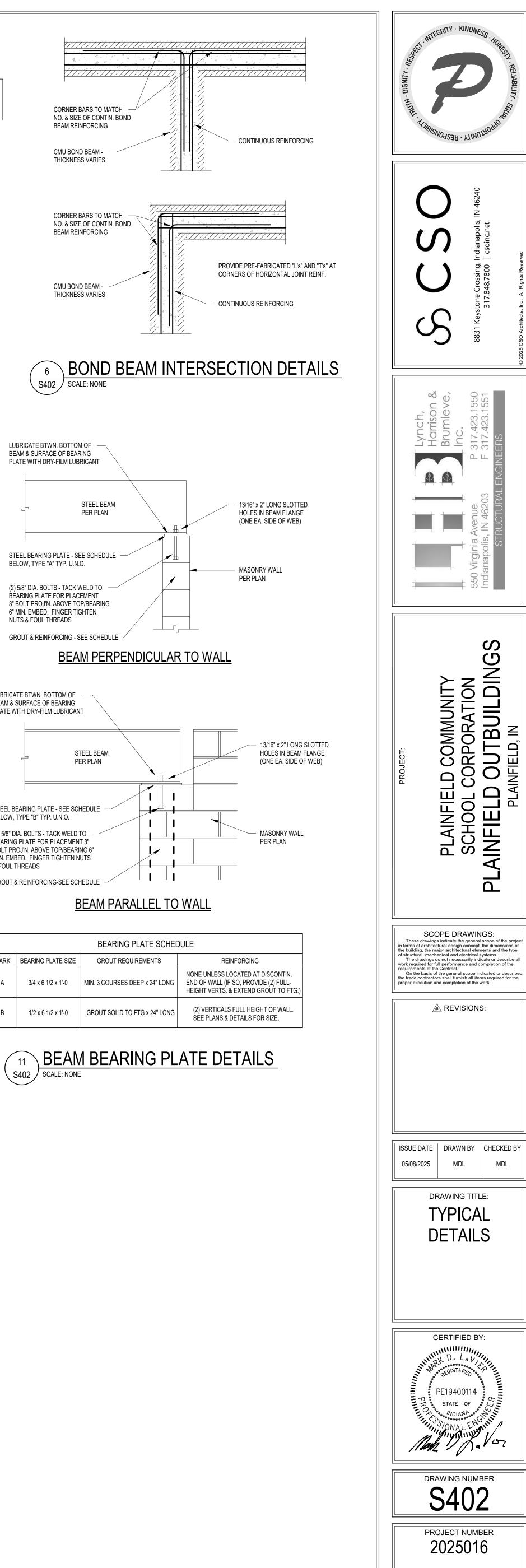


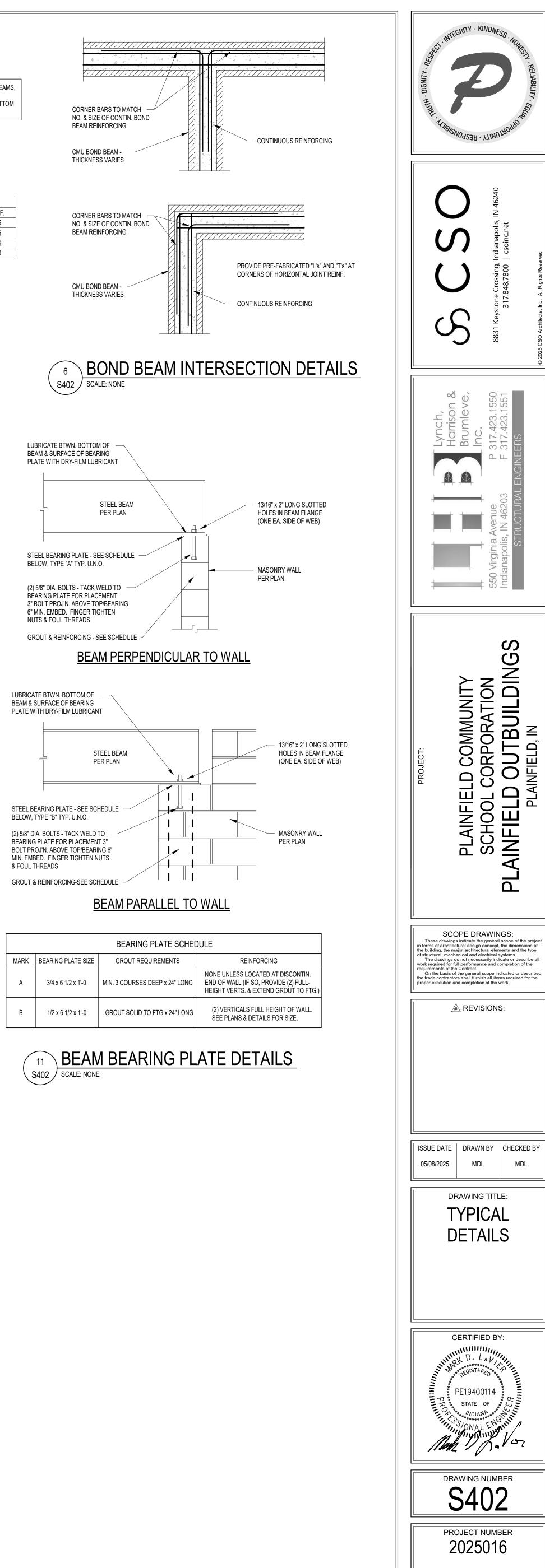






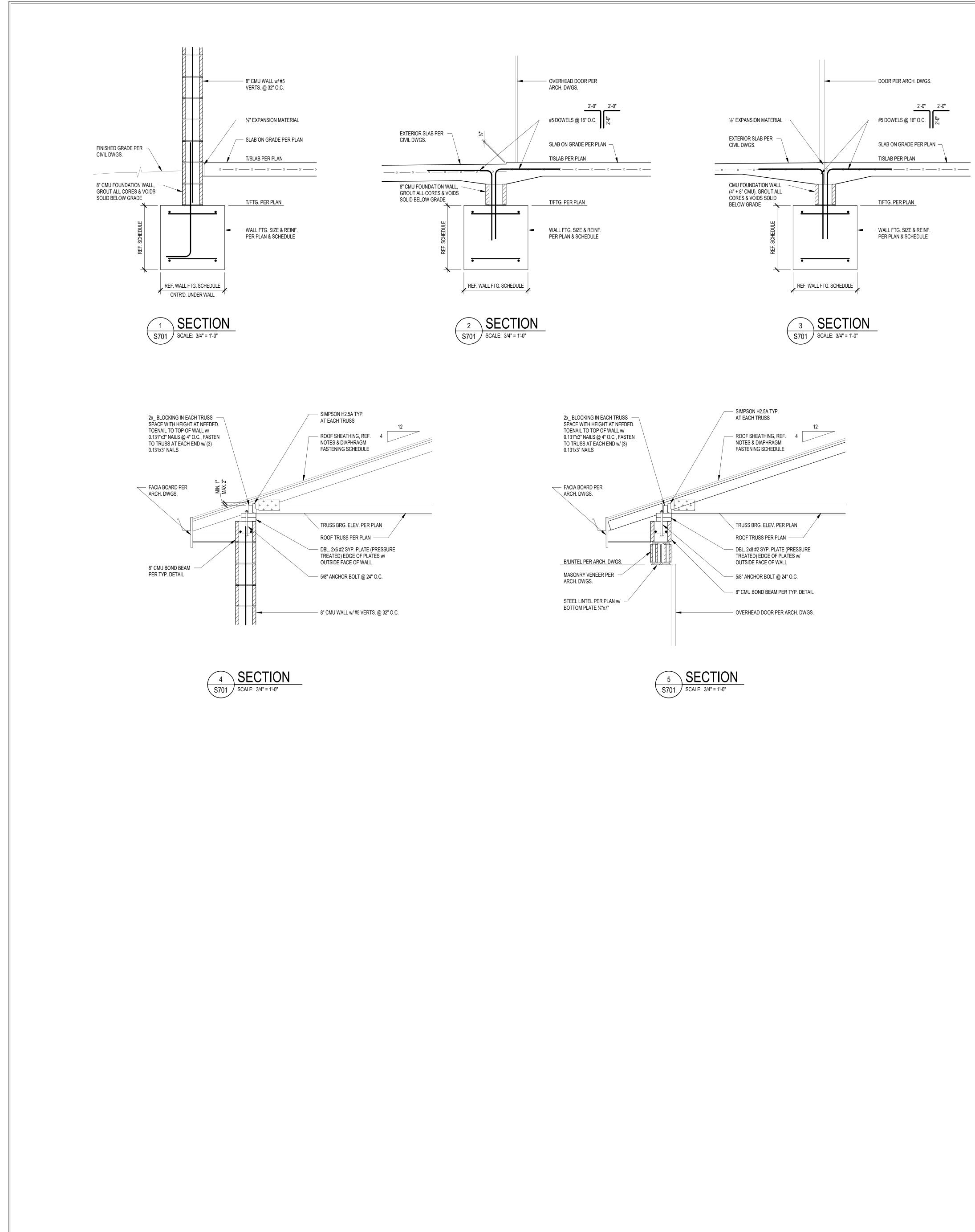


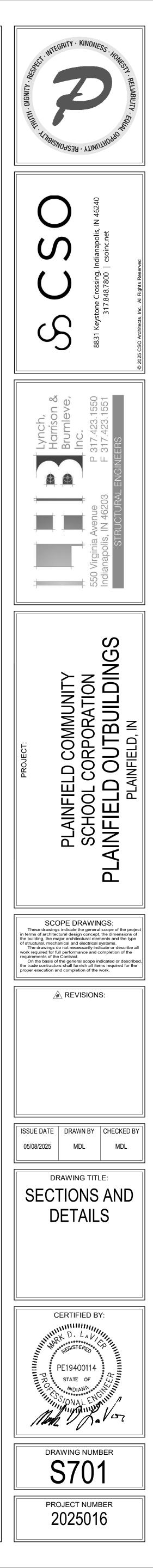


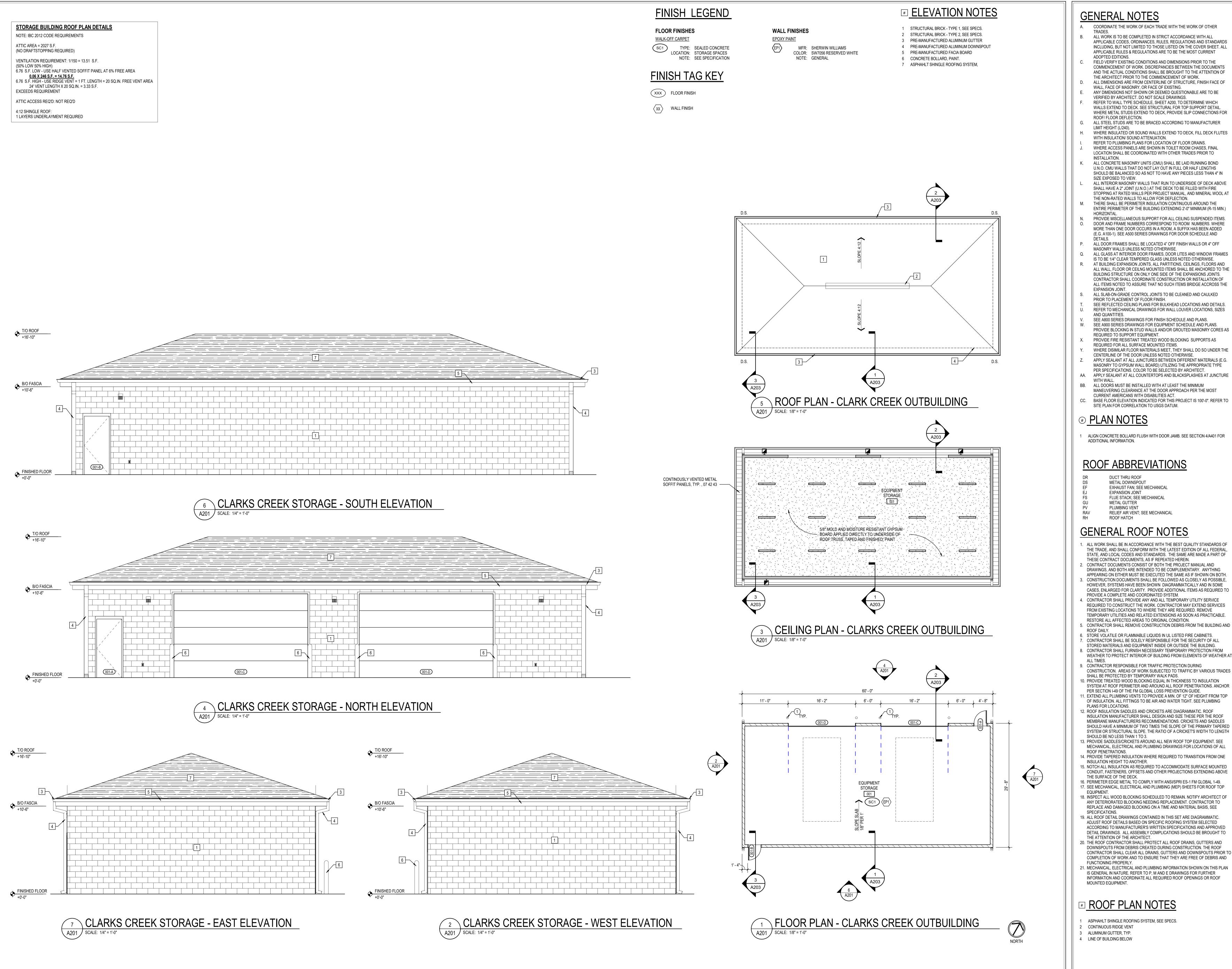


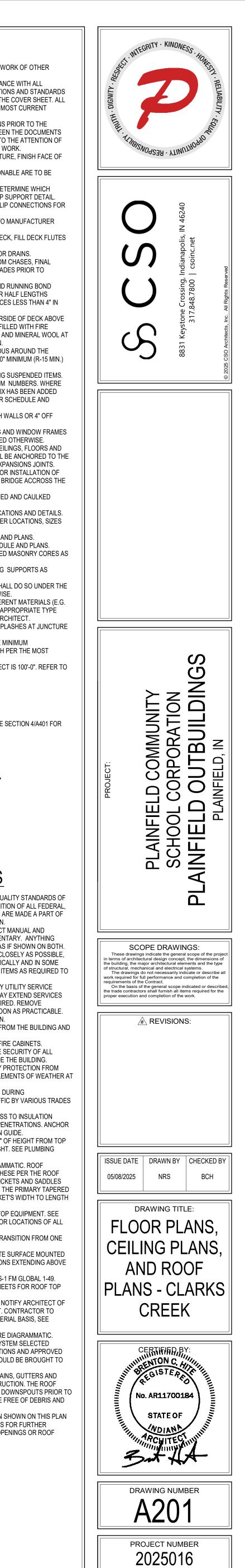
		BEARING PLATE SCHEE	DULE
MARK	BEARING PLATE SIZE	GROUT REQUIREMENTS	REINFORCING
A	3/4 x 6 1/2 x 1'-0	MIN. 3 COURSES DEEP x 24" LONG	NONE UNLESS LOCATED AT DISCONTIN. END OF WALL (IF SO, PROVIDE (2) FULL- HEIGHT VERTS. & EXTEND GROUT TO FTG.)
В	1/2 x 6 1/2 x 1'-0	GROUT SOLID TO FTG x 24" LONG	(2) VERTICALS FULL HEIGHT OF WALL. SEE PLANS & DETAILS FOR SIZE.

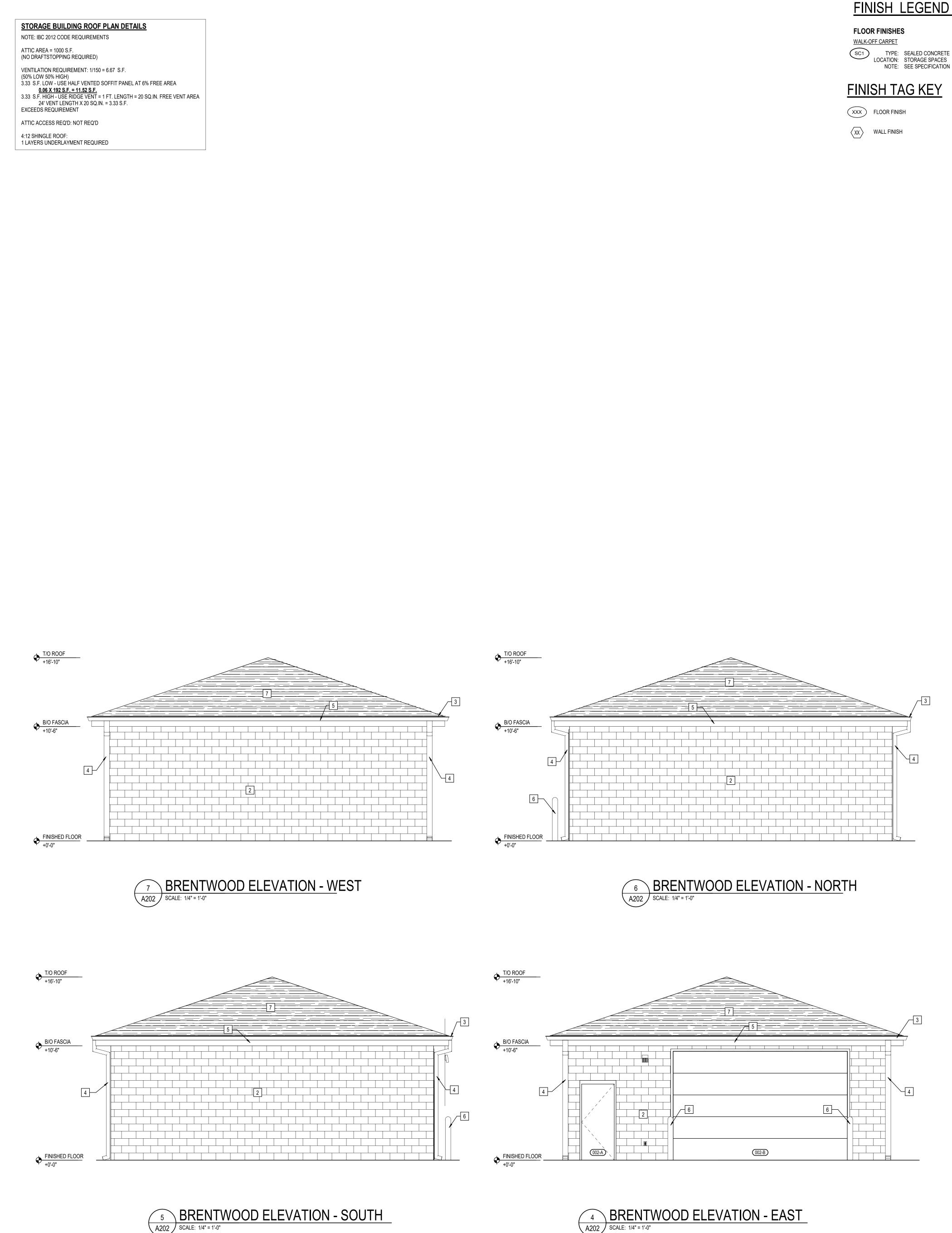






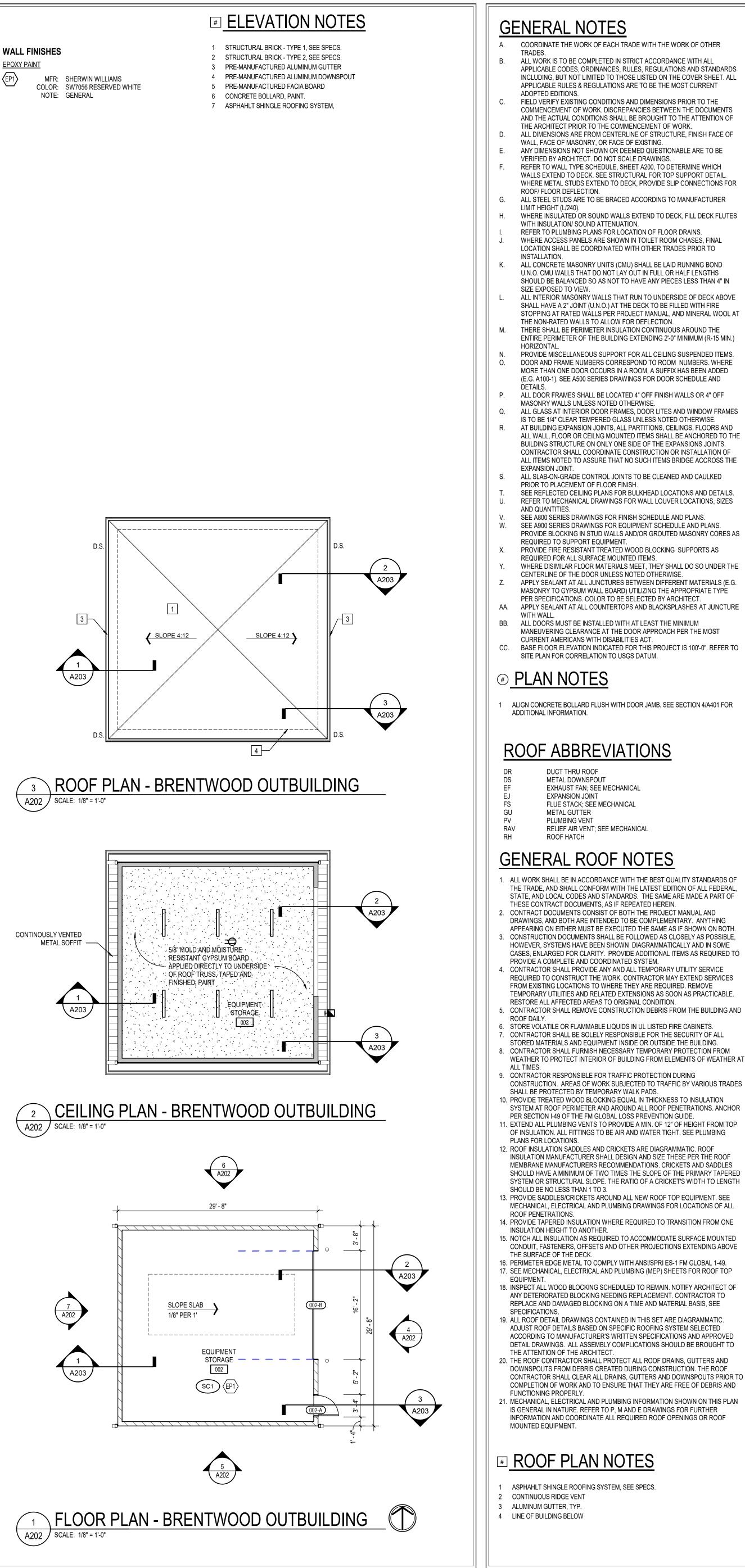


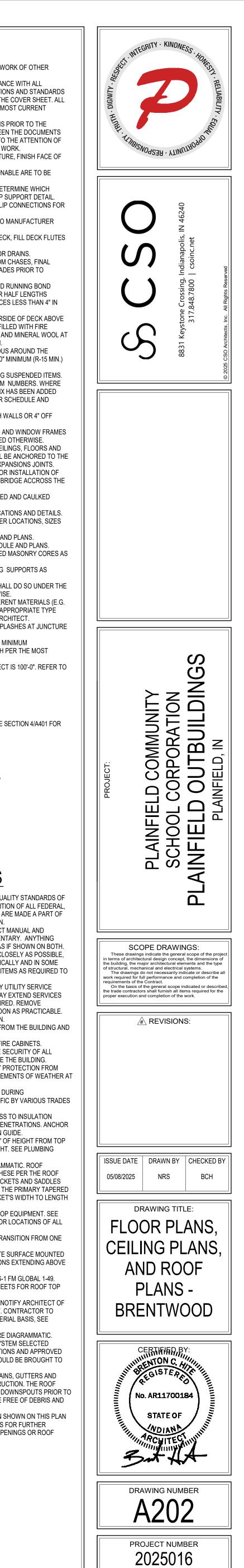


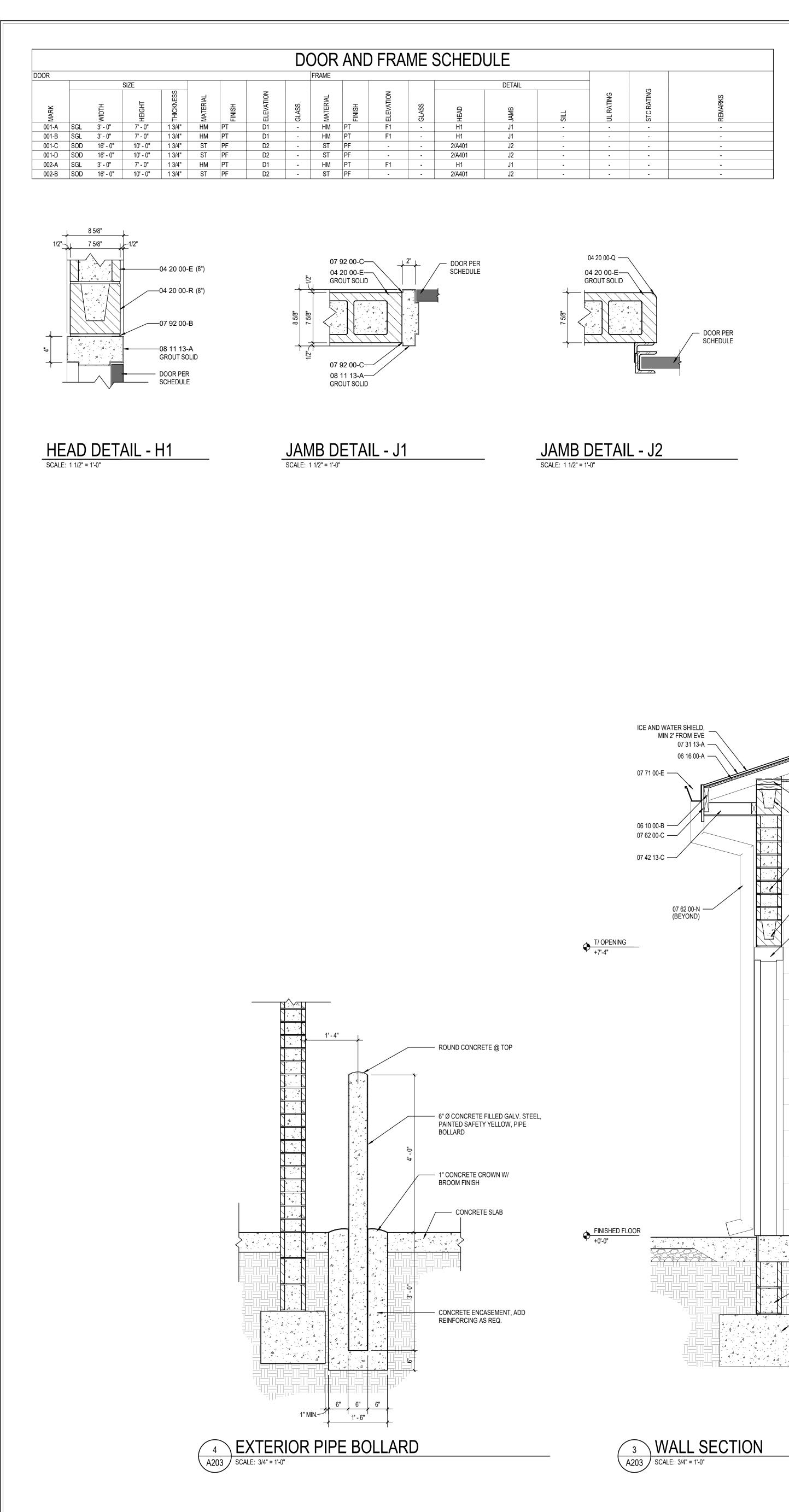


FINISH LEGEND

FINISH TAG KEY



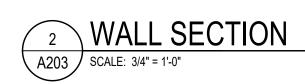


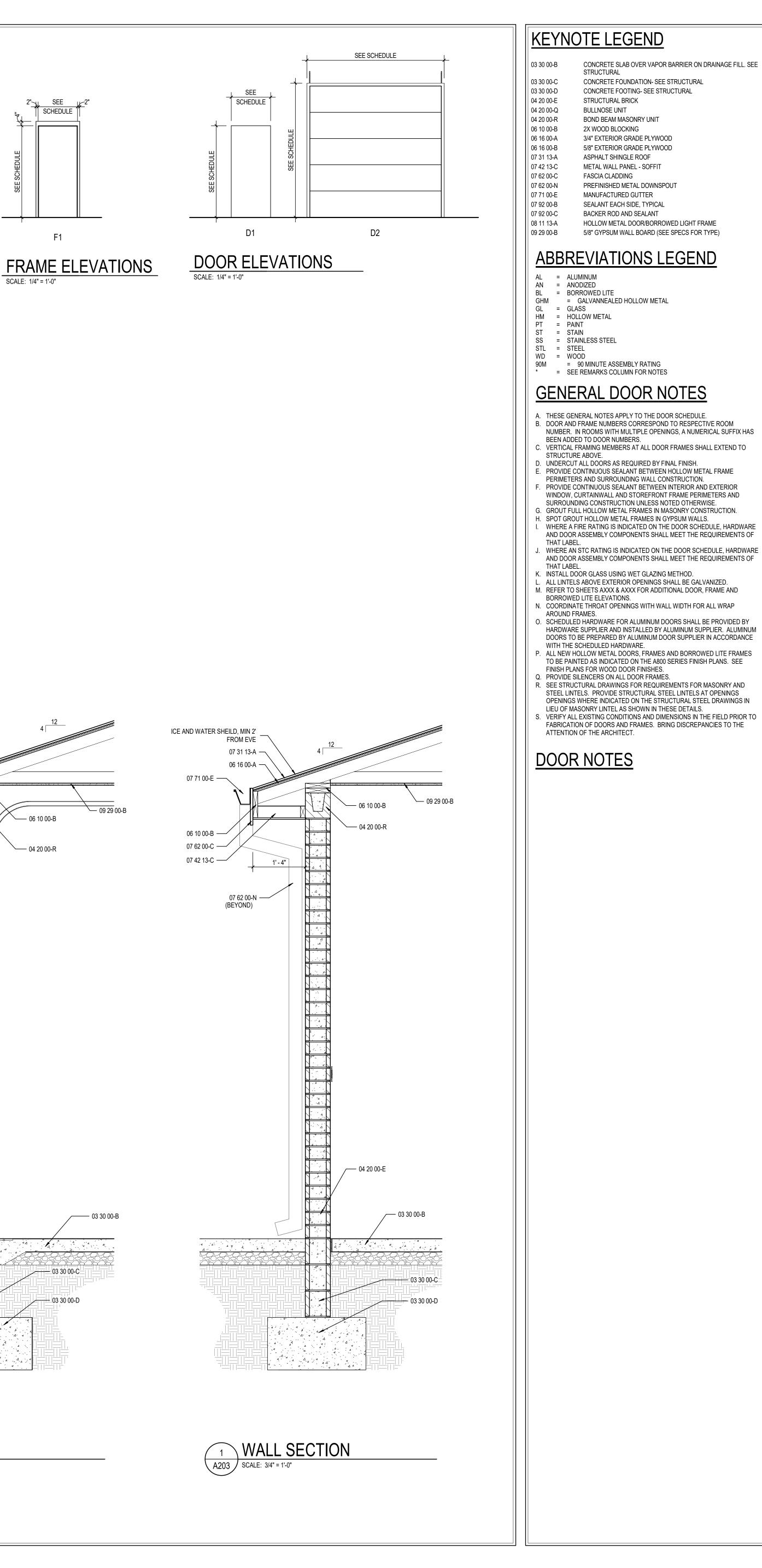


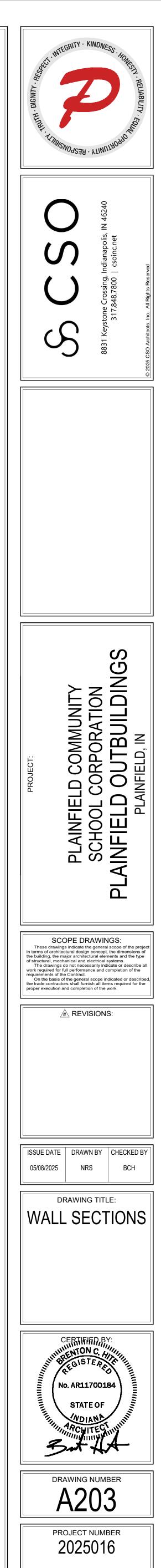
SILL	UL RATING	STC RATING	REMARKS
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

FOR L	JSE ON D	000R #(s):			
001-A	00	1-B 002-A			
PROV	IDE EAC	H SGL DOOR(s) WITH THE FOLLOW	ING:		
QTY	QTY	DESCRIPTION	CATALOG NUMBER	FINISH	MFR
1	EA	CONT. HINGE	224XY	628	IVE
1	EA	STOREROOM LOCK	L9080BDC 06A	626	SCH
1	EA	SFIC CYLINDER	KEYED TO/MATCH EXISITNG SYSTEM	626	BES
1	EA	SURFACE CLOSER	4040XP SCUSH ST-1595	689	LCN
1	EA	KICK PLATE	8400 10" X 1 1/2" LDW B-CS	630	IVE
1	EA	RAIN DRIP	142AA	AA	ZER
1	SET	WEATHERSTRIPPING	CATALOG NUMBER	AA	ZER
1	EA	DOOR SWEEP, BRUSH W/ DRIP	CATALOG NUMBER	AA	ZER
1	EA	THRESHOLD, 1/2"	CATALOG NUMBER	А	ZER

ICE AND WATER SHEILD, MIN 2' FROM EVE 07 31 13-A — 06 16 00-B — 07 71 00-E — — 06 10 00-B 06 10 00-B — —¹04 20 00-R 07 62 00-C — 1' - 4" 07 42 13-C — • T/ OPENING +10'-0" ∕── 04 20 00-E / 04 20 00-R — 08 11 13-A CONCRETE BOLLARD, PAINT SAFETY YELLOW /---- 03 30 00-B € FINISHED FLOOR +0'-0" 4.4 4.4 ↓ ↓ ↓ =++- 03 30 00-C 03 30 00-D .[▲]. . 4[♥]´¤`, ´









CONCRETE SLAB OVER VAPOR BARRIER ON DRAINAGE FILL. SEE

ABBREVIATIONS

MDF

MDP

MED MFG MFR

MH

MIC

MIN

MISC

MLO MOCP

MOG

MTD

MTS

MVA

MVAR

MW

N/A

NEC

NEMA

NFS

NIC

NTS

0&P

OS&Y

ΟZ

PA

PIV

PNL

PR

PRI

PSF

PSI

PT

PU

PVC

PWR

QUAN; QTY

RECEPT

REF

REFR REQ'D

RGS

RMC

RMS RNC

SCCR

SCR

SEC

SPD SPDT SPKR SPST

SQ SQ FT

SQ IN

S/S

STD SURF SW

SWD SWBD SQ YD SYM

SN

SCHED

RLA

RM

PSIG

MV

MHZ

AMPERE ALTERNATING CURRENT; ARMORED CABLE AC ADJUSTABLE ADJ AMPERE FUSE; AMPERE FRAME AF AFF ABOVE FINISHED FLOOR AFG ABOVE FINISHED GRADE AIC AMPERE INTERRUPTING CAPACITY ALUMINUM ALCR AUTOMATIC LOAD CONTROL RELAY ANSI AMERICAN NATIONAL STANDARDS INSTITUTE ASYM ASYMMETRICAL AT AMPERE TRIP ATS AUTOMATIC TRANSFER SWITCH AUX AUXILIARY AVG AVERAGE AWG AMERICAN WIRE GUAGE BATT BATTERY BOLTED PRESSURE SWITCH BPS CONDUIT; CENTRIGRADE CENTER TO CENTER CIRCUIT BREAKER CCTV CLOSED CIRCUIT TELEVISION CANDELA CD CUBIC FEET COMPACT FLUORESCENT CFL CIRC CLG CIRCUIT CEILING CONCRETE MASONRY UNIT CMU COL COLUMN COMB CONC COND COMBINATION CONCRETE CONDUCTOR CONT CONTINUOUS; CONTINUED CONTROL PANEL CP CONTROL POWER TRANSFORMER CURRENT TRANSFORMER COPPER; CUBIC CU CU FT CUBIC FOOT CUBIC YARD CYLINDER CYL DEEP: DEPTH DECIBEL; DIRECT BURIED DB DIRECT CURRENT DDC DIRECT DIGITAL CONTROL DUAL FACE DIAMETER DIA DIAG DISC DISTR DIAGONAL DISCONNECT DISTRIBUTION DN DOWN DPDT DPST DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW DWG DRAWING DX DIRECT EXPANSION EAST; EXISTING EACH EA ELECTRIC BASEBOARD RADIATION EBBR ELECTRONIC BALLAST FB ELECTRICAL CONTRACTOR EGC EQUIPMENT GROUNDING CONDUCTOR ELEC ELEV ELECTRICAL ELEVATOR; ELEVATION EM EMS EMT ENCL EMERGENCY ENERGY MANAGEMENT SYSTEM ELECTRICAL METALLIC TUBING ENCLOSURE ENG ENGINE EQUIP EST EQUIPMENT ESTIMATED ELECTRIC WATER COOLER EWC EWH ELECTRIC WATER HEATER EXP FXPOSED FXT EXTERIOR FUSED; FAHRENHEIT FIRE ALARM FA FAA FIRE ALARM ANNUNCIATOR FACP FIRE ALARM CONTROL PANE FOOT-CANDLE FC FUSED DISCONNECT FD FDR FEEDER FIN FIXT FLA FINISHED FIXTURE FULL LOAD AMPS FLR FLOOR FLUOR FLUORESCENT FM FREQUENCY MODULATION; FACTORY MUTUAL FOOT; FEET FT FURN FVNR FURNISHED FULL VOLTAGE NON-REVERSING GROUND GUAGE GA GALV GALVANIZED GENERAL CONTRACTOR GC GEN GENERATOR GROUND FAULT CIRCUIT INTERRUPTER GFCI, GFI GFP GROUND FAULT PROTECTION GND GRS, GRC GROUND GALVANIZED RIGID STEEL CONDUIT HIGH HEAVY DUTY; HIGH DEFINITION HD hg Hoa MFRCURY HAND-OFF-AUTOMATIC HORIZ HORIZONTAL HP HORSEPOWER HPS HIGH PRESSURE SODIUM HR HOUR HRS/DAY HOURS PER DAY ΗT HEIGHT HIGH VOLTAGE HV ΗZ HERTZ INSIDE DIAMETER ID INTERMEDIATE DISTRIBUTION FRAME IDF IEEE INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS IG ISOLATED GROUND INTERMEDIATE METAL CONDUIT IMC IMP IMPEDANCE IN INCH INCANDESCENT INCAN INSUL INT INSULATION; INSULATED INTERIOR; INTERNAL INV EL INVERTED ELEVATION JOULE; JUNCTION JUNCTION BOX Κ THOUSAND KCMIL KHZ THOUSAND CIRCULAR MILS KILOHERTZ KK KIRK KEY KP KEYPAD KII OVOI T KV KVA KILOVOLT AMPERE KVAR KILOVOLT AMPERE REACTIVE KW KILOWATT KWH KILOWATT-HOUR LENGTH; LONG; LUMEN POUND; ELL CONDUIT BODY LIGHT EMITTING DIODE I FD LINEAR FOOT LAMP LUMEN DEPRECIATION LLD LOCK OUT LRA LOCKED ROTOR AMPS LIGHT; LIQUID-TIGHT LT LTG LIGHTING POWER LIMITED LOW VOLTAGE LV

METER MILLIAMPERE MAGNETIC STARTER MANUAL

Μ

MA

MAN MAT

MATV

MAX

MCC

MCCB MCM

MCP

MCS

MC MCA MCB

MAG STR

MATERIAL MASTER ANTENNA TELEVISION MAXIMUM METAL CLAD CABLE; MOTOR CONTROLLER MINIMUM CIRCUIT AMPS MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOLDED CASE CIRCUIT BREAKER THOUSAND CIRCULAR MILS MOTOR CIRCUIT PROTECTOR MOTOR CIRCUIT SWITCH

TC TCC TCP TD TELE TGB THD TMGB TO TR TTB TV TVSS	TIME CLOC TEMPERAT TEMPERAT TIME DELA TELEPHON TELECOMI TELECOMI TELECOMI TAMPER R TELEPHON TELEPHON TELEVISIO TRANSIEN
TYP UC UF UG UHF UL	TYPICAL UNDER (C/ UNDERGR UNDERGR ULTRA HIG UNDERWR UNFINISHE UNLESS N UTILITY UNSHIELD
V VA VAR VERT VFD VHF VOL	VOLT VOLT AMP VERTICAL VARIABLE VERY HIGH VOLUME
W W/ WG WM WP WT	WIRE; WA WITH WIRELESS WIRE GUA "WIREMOL WEATHER WEIGHT; V
XFMR XFER	TRANSFOR TRANSFER
Δ	WYE DEGREE DELTA PHASE; DI, POUND; NI PERCENT AT APPROXIM FEET INCHES

NOT ALL S SHEET AR DOCUMEN

			BRA	NCH CIRCUI	T WIRING C	┢							
		S SHOWN ON T											
		NDITION (80% O IZED TO MAINTA											
		LLOWING CHAF											
MAINTAIN LE	ESS THAN 3% V	OLTAGE DROP	FOR A 12 AMP L	OAD. CONTRAC	TOR SHALL US	E							
		CIRCUITS WITH											
SIZES SHAL	L BE INCREASE	D SAME AS CIR	CUIT CONDUCT	ORS, PER NEC.	ADJUST RACEV	V							
		RANCH CIRCUIT CONDUCTOR LENGTH FOR 20 AMP CIRCUIT TO MAINTA DJUST AS KNOWN CONDITIONS REQUIRE.											
WIRE SIZE	120V-1P	208V-1P	208V-3P	277V-1P	480V-3P								
#12	0'-80'	0'-140'	0'-160'	0'-185'	0'-375'								
#10	81'-135'	141'-230'	161'-270'	186'-310'	376'-620'								
#8	136'-200'	231'-350'	271'-410'	311'-470'	621'-940'								
#6	201'-315'	351'-550'	411'-635'	471'-735'	941'-1475'								

	TYPICAL WIRING DESIGNATIONS	TYPICAL DEVICE DESIGNATIONS
MAIN DISTRIBUTION FRAME MAIN DISTRIBUTION PANELBOARD	INDICATES MINIMUM WIRE SIZE, #12 UNLESS NOTED	LIGHT FIXTURE TYPE
MEDIUM MANUFACTURING MANUFACTURER	OTHERWISE	
MANHOLE; METAL HALIDE; MAN-HOUR MEGAHERTZ MINERAL INSULATED		SWITCH LEG — a 1 — CIRCUIT NUMBER
MICROPHONE MINIMUM; MINUTE MISCELLANEOUS	ISOLATED GROUND CONDUCTOR	C
MAIN LUGS ONLY MAXIMUM OVERCURRENT PROTECTION	- GROUND CONDUCTOR	
MOGUL MOUNTED MANUAL TRANSFER SWITCH		S a SWITCH LEG
MEGAVOLT; MEDIUM VOLTAGE MEGAVOLT AMPERES MEGAVOLT AMPERES REACTIVE	- PHASE (OR CONTROL) CONDUCTOR	3-3-WAY
MEGAWATT		CIRCUIT DESCRIPTIONS
NOT APPLICABLE NORMALLY CLOSED	-	<u>CIRCUIT NUMBER</u> : PANEL-CIRCUIT NUMBER
NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCATION	ROOM CIRCUIT DESIGNATIONS	
NON-FUSED NON-FUSED DISCONNECT NOT IN CONTRACT		<u>MULTIPLE INDIVIDUAL CIRCUIT NUMBERS</u> : PANEL-CIRCUIT NUMBER,CIRCUIT NUMBER,CIRCUIT NUMBER (I.E. A1-1, A1-3)
NIGHT LIGHT NON-METALLIC SHEATHED CABLE NUMBER; NORMALLY OPEN	(A1) (A1-1)	2-POLE CIRCUIT NUMBER:
NOT TO SCALE		PANEL-CIRCUIT NUMBER/CIRCUIT NUMBER (I.E. A1-1,3)
OVERHEAD AND PROFIT ON CENTER; OVERCURRENT OUTSIDE DIAMETER	* INDIVIDUAL CIRCUITS NUMBERS ARE LOCATED AT	<u>3-POLE CIRCUIT NUMBER:</u> PANEL-CIRCUIT NUMBER/CIRCUIT NUMBER/CIRCUIT NUMBER
OVERHEAD OVERLOAD OUTSIDE SCREW AND YOKE	EACH DEVICE	(I.E. A1-1,3,5)
OUNCE POLE: PULL	ROOM CIRCUIT DESIGNATION SHOWN ABOVE APPLY TO EVERY DEVICE IN THE ROOM UNLESS NOTED OTHERWISE	PANELS
PUBLIC ADDRESS PUSH BUTTON; PULL BOX PHOTOCELL		PANEL, FLUSH
PEDESTAL POWER FACTOR	ROOM CIRCUIT DESIGNATIONS	
PHASE POST INDICATOR VALVE PILOT LIGHT	WITH RELAY NUMBER	CONTROL PANEL (AS NOTED), FLUSH
PANEL PAIR PRIMARY		
POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GUAGE	A1-1 CIRCUIT NUMBER	POWER EQUIPMENT 1-PHASE MOTOR
POTENTIAL TRANSFORMER PER UNIT POLYVINYL CHLORIDE		 1-PHASE MOTOR 3-PHASE MOTOR
POWER		SF FUSIBLE BOX COVER SWITCH
QUANTITY RESISTANCE; RELOCATED	RACEWAYS	Image: Provide the system Image: Provide the system Image: Provide the system Image: Providet the system
RECEPTACLE REFERENCE REFRIGERATOR	CONDUIT, IN WALL OR CEILING	
REQUIRED RIGID GALVANIZED STEEL RUNNING LOAD AMPS	CONDUIT, BELOW FLOOR CONDUIT, EXPOSED	MANUAL MOTOR STARTER MANUAL MOTOR STARTER WITH PILOT LIGHT
ROOM RIGID METALLIC CONDUIT		MAGNETIC MOTOR STARTER
ROOT MEAN SQUARE RIGID NON-METALLIC CONDUIT RAINTIGHT		COMBINATION DISCONNECT & MAGNETIC MOTOR STARTER T SMALL TRANSFORMER
SHORT-CIRCUIT CURRENT-RATING SCHEDULE	CONDUIT, TURNING DOWN CONDUIT, CAPPED	VFD VARIABLE FREQUENCY DRIVE
SHORT CIRCUIT RATING SERVICE ENTRACE; SERVICE EQUIPMENT SECONDARY	UNDERFLOOR DUCT & JUNCTION BOX, SINGLE SYSTEM	HOPUSHBUTTONHOOUP/DOWN PUSHBUTTON
SOLID NEUTRAL SINGLE POLE SURGE PROTECTIVE DEVICE	UNDERFLOOR DUCT & JUNCTION BOX, DUAL SYSTEM	HOODUP/DOWN PUSHBUTTONHOODUP/DOWN/STOP PUSHBUTTON
SINGLE POLE, DOUBLE THROW SPEAKER	J JUNCTION BOX	
SINGLE POLE, SINGLE THROW SQUARE SQUARE FEET	P PULL BOX	<u>RECEPTACLES AND OUTLETS</u> ↓ DUPLEX RECEPTACLE
SQUARE INCH STAINLESS STEEL; SAFETY SWITCH START STOP		HORIZONTAL DUPLEX RECEPTACLE
SHUNT TRIP; STANDARD SURFACE	MISCELLANEOUS	
SWITCH SWITCHING DUTY SWITCHBOARD	CLOCK (WALL) CLOCK (CEILING)	 DUPLEX RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT DOUBLE DUPLEX (QUAD) RECEPTACLE ABOVE COUNTERTOP OR
SQUARE YARD SYMMETRICAL	D BELL	TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
TEMPERATURE; TRANFORMER TERMINAL BLOCK	 BUZZER THERMOSTAT 	GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE HORIZONTAL GFCI DUPLEX RECEPTACLE
TIME CLOCK TEMPERATURE CONTROLS CONTRACTOR TEMPERATURE CONTROL PANEL	ELECTRICAL GROUND	DOUBLE DUPLEX (QUAD) GFCI RECEPTACLE
TIME DELAY TELEPHONE TELECOMMUNICATIONS GROUNDING BUSBAR		GFCI DUPLEX RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
TOTAL HARMONIC DISTORTION; THREAD TELECOMMUNICATIONS MAIN GROUNDING BUSBAR TELECOMMUNICATIONS OUTLET		DOUBLE DUPLEX (QUAD) GFCI RECEPTACLE ABOVE COUNTERTOP OR TOGGLE SWITCH HEIGHT WHERE NO COUNTER IS PRESENT
TAMPER RESISTANT TELEPHONE TERMAINAL BOARD		GFCI/ WEATHERPROOF DUPLEX RECEPTACLE
TELEVISION TRANSIENT VOLTAGE SURGE SUPPRESSOR TYPICAL		 → SINGLE RECEPTACLE → FLUSH FLOOR OUTLET, ONE DUPLEX RECEPTACLE UNLESS
UNDER (CABINET OR COUNTER) UNDERGROUND FEEDER		
UNDERGROUND ULTRA HIGH FREQUENCY UNDERWRITERS LABORATORY		• RECEPTACLE & FOUR DATA JACKS UNLESS NOTED OTHERWISE
UNFINISHED UNLESS NOTED OTHERWISE		$\Theta_{_{PED}}$ UNLESS NOTED OTHERWISE
UTILITY UNSHIELDED TWISTED PAIR		 CEILING DROP CORD. 3#12 TYPE SO CORD WITH 2 DUPLEX RECEPTACLES AND KELLUMS GRIPS UNLESS NOTED OTHERWISE SPECIAL OUTLET OR EQUIPMENT CONNECTION (AS NOTED)
VOLT VOLT AMPERES VOLT AMPERES REACTIVE		 RECESSED FLOOR BOX, DUAL-SERVICE WITH 4-GANGS AND TWO DUPLEX RECEPTACLES UNLESS NOTED OTHERWISE
VERTICAL VARIABLE FREQUENCY DRIVE VERY HIGH FREQUENCY		MULTIOUTLET ASSEMBLY, LENGTH INDICATED, 16" AFF UNLESS NOTED OTHERWISE
VOLUME WIRE: WATT: WIDE		- INDICATES VERTICAL RUN
WIRE; WATT, WIDE WITH WIRELESS ACCESS POINT WIRE GUARD		LAB TOP PEDESTAL OUTLET, GFCI-TYPE DUPLEX RECEPTACLE
"WIREMOLD" (SURFACE RACEWAY) WEATHERPROOF		
WEIGHT; WATERTIGHT TRANSFORMER		LAB TOP PEDESTAL OUTLET, TWO GFCI-TYPE DUPLEX RECEPTACLES
TRANSFER		LAB TOP PEDESTAL OUTLET, TWO GFCI-TYPE QUADRIPLEX RECEPTACLES
DEGREE DELTA		
PHASE; DIAMETER POUND; NUMBER		
PERCENT AT APPROXIMATELY		
FEET INCHES		
ALL SYMBOLS ON THIS		
ET ARE USED IN THESE		
CUMENTS.		
	i	
WIRING CHART		
N SELECTED TO MAINTAIN LESS THAN 2% VOLTAGE ROUTING AND CONDUCTOR LENGTH. BRANCH CIR FROM PANELBOARD TO LOAD BASED UPON 60% C	CUIT	
A 20 AMP CIRCUIT BASED UPON CIRCUIT LENGTH IN R SHALL USE THIS CHART FOR BIDDING AND INSTAL	I ORDER TO LLATION	
TRACTOR SHALL ADJUST ACCORDINGLY. GROUND (JUST RACEWAY SIZES ACCORDINGLY.		
O MAINTAIN LESS THAN 3% VOLTAGE DROP AT 12 A	MP LOAD.	
480V-3P 0'-375' CONDUCTOR LENGTHS INDICATED		
0'-375' FIRST DEVICE (BUT MAINTAIN MAX 376'-620' VOLTAGE DROP TO THE LAST DEV KNOWN LOADS). KNOWN LOADS).	(IMUM 5%	
621'-940'		

LIGHT FIXTURES

LIGHT, CEILING 0 LIGHT, CEILING Ю LIGHT, WALL EXIT SIGN, CEILING \otimes EXIT SIGN, WALL Ю

- \otimes EXIT SIGN WITH DIRECTIONAL ARROW, CEILING EXIT SIGN WITH DIRECTIONAL ARROW, WALL H⊗J
- EMERGENCY LIGHTING UNIT
- TRACK LIGHT FIXTURE
- EMERGENCY LIGHT FIXTURE
- LIGHT FIXTURE DIRECTIONAL AIMING INDICATOR > NL NIGHT LIGHT

SWITCHES

- SWITCH, SINGLE POLE S
- SWITCH, DOUBLE POLE S₂
- SWITCH, THREE WAY S3 SWITCH, FOUR WAY **S**4
- SWITCH, KEY OPERATED Sκ
- SWITCH, WITH PILOT LIGHT SΡ
- SWITCH, WEATHERPROOF SWP
- SWITCH, EXPLOSIONPROOF Sx SWITCH, DIMMER SD
- SWITCH, SPRING WOUND, INTERVAL TIME SWITCH STS SWITCH, DIGITAL INTERVAL TIME SWITCH SDT SWITCH, POWER LIMITED LOW VOLTAGE PUSH SLV BUTTON POWER LIMITED LOW VOLTAGE TOUCHSCREEN LV LIGHTING CONTROL
- MT MULTI-TECHNOLOGY CEILING OCCUPANCY SENSOR US ULTRASONIC CEILING OCCUPANCY SENSOR PI PASSIVE INFRARED CEILING OCCUPANCY SENSOR \$1 SINGLE POLE WALL OCCUPANCY SENSOR \$2 TWO POLE WALL OCCUPANCY SENSOR COMBINATION WALL OCCUPANCY SENSOR AND \$D DIMMER DL DAYLIGHT SENSOR тс TIMECLOCK PC PHOTOCELL PP POWER PACK LC LIGHTING CONTACTOR LCP LIGHTING CONTROL PANEL
- LRP LIGHTING RELAY PANEL ALCR AUTOMATIC LOAD CONTROL RELAY (LIGHTING) FIRE ALARM SYSTEMS

- FACP FIRE ALARM CONTROL PANEL FAA FIRE ALARM ANNUNCIATOR F MANUAL PULL STATION FIRE ALARM WALL HORN-STROBE Ē FIRE ALARM WALL STROBE VEZ. FIRE ALARM CEILING STROBE \mathbf{A} FIRE ALARM CEILING HORN-STROBE \mathcal{A} FIRE ALARM CEILING SPEAKER F FIRE ALARM BELL ELECTRO-MAGNETIC DOOR HOLDER DH R
- FIRE ALARM ADDRESSIBLE INTERFACE DEVICE. F PHOTOELECTRIC SMOKE DETECTOR DUCT TYPE SMOKE DETECTOR

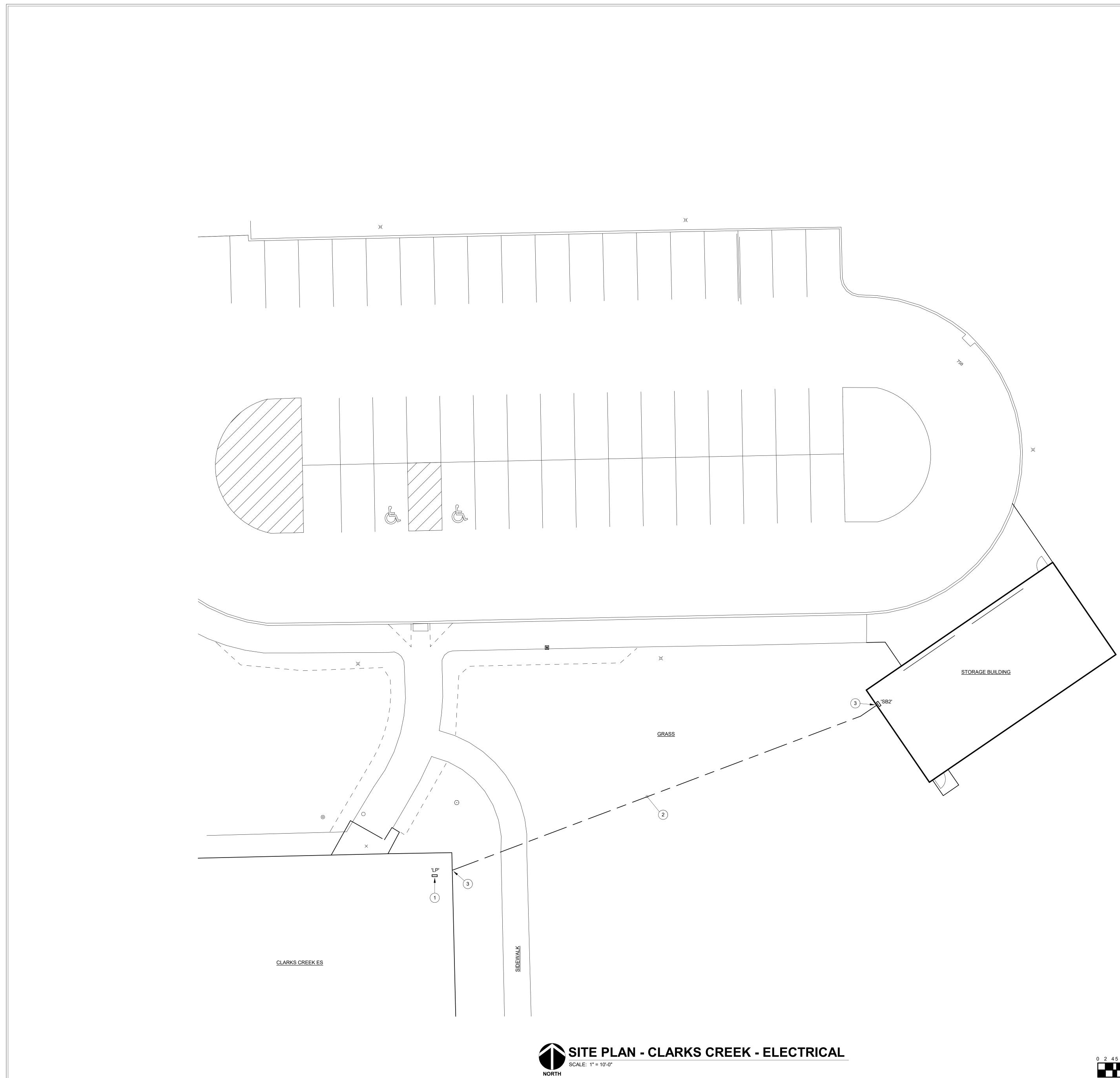
Η HEAT DETECTOR FS SPRINKLER FLOW SWITCH

TS SPRINKLER TAMPERSWITCH

GENERAL NOTES:

- 1. 120 VOLT CIRCUITS SHALL UTILIZE SEPARATE INDEPENDENT NEUTRAL CONDUCTORS. DO NOT SHARE NEUTRALS.
- 2. CONTRACTOR SHALL COORDINATE WITH ALL TRADES. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR INCORRECT WORK, OR FOR INFRINGEMENT UPON OTHERS' WORK, DUE TO A LACK OF COORDINATION.
- DEVICES IN GENERAL SHALL BE CENTERED IN WALL SPACE IN WHICH THEY ARE INSTALLED OR THEY SHALL BE SPACED SYMMETRICALLY (FOR EXAMPLE, CENTER DEVICES WHEN MOUNTED ON FACE OF COLUMNS).
- 4. COORDINATE AND VERIFY LOCATIONS OF DEVICES WITH BLOCK COURSING, FINISH MATERIALS, CASEWORK, ETC. PRIOR TO ROUGH-IN.
- 5. WIRING SHALL BE MINIMUM #12 AWG IN 3/4" EMT CONDUIT UNLESS OTHERWISE NOTED OR REQUIRED.
- 6. WHERE SURFACE DEVICE BOXES ARE PERMITTED, DO NOT USE PLASTER RINGS. USE EXPOSED WORK COVERS INTENDED FOR THE PURPOSE.
- 7. WHERE SURFACE CONDUIT OR EMT IS PERMITTED, DO NOT USE CONDUIT HANGERS LESS THAN 8-FEET AFF. USE ONE- OR TWO-HOLE STRAPS SO THAT NO SHARP EDGES PROTRUDE FROM THE WALL.
- 8. A MAXIMUM OF THREE SINGLE-PHASE CIRCUITS SHALL BE INSTALLED IN A SINGLE CONDUIT.
- 9. LOCATION OF LIGHT FIXTURES SHALL BE COORDINATED IN FIELD AND LOCATED TO PROVIDE THE BEST ILLUMINATION OF THE SPACE AND EQUIPMENT. COORDINATE WITH ENGINER. 10. PROVIDE FIRESTOPPING AT PENETRATIONS THROUGH FIRE-RATED CONSTRUCTION.
- 11. DO NOT INSTALL RACEWAYS IN FLOOR SLABS. INSTALL RACEWAYS BELOW SLAB ON GRADE AT LEAST 6-INCHES BELOW BOTTOM OF SLAB. FEEDER CONDUITS SHALL BE AT LEAST 24-INCHES BELOW BOTTOM OF SLAB.
- 12. UNLESS NOTED OTHERWISE, JUNCTION BOXES AND PULL BOXES SHALL BE LISTED AND LABELLED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.





RENOVATION LEGEND:

WORK TO BE INSTALLED

GENERAL NOTES:

1. SEE E-001 FOR GENERAL NOTES.

PLAN NOTES:

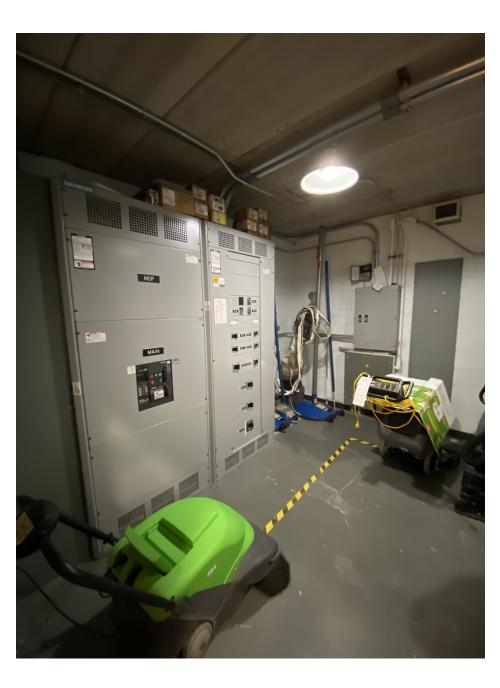
- REWORK (2) EXISTING 1-P BREAKERS IN PANEL 'LP' (CKTS 13 & 15) TO MAKE ROOM FOR NEW 100A-2P BREAKER. BREAKER TO FEED NEW STORAGE BUILDING.
- 2. 3#3, 1#8G 2"C PVC SCHEDULE 80 BURIED AT 18" BELOW GRADE. PROVIDE TRACEABLE WARNING TAPE AT 12" BELOW GRADE.
- 3. WHERE EXPOSED, THE PVC RACEWAY TO BE CONVERTED TO GRS.



PANEL 'LP' in ELECTRICAL MEZZANINE

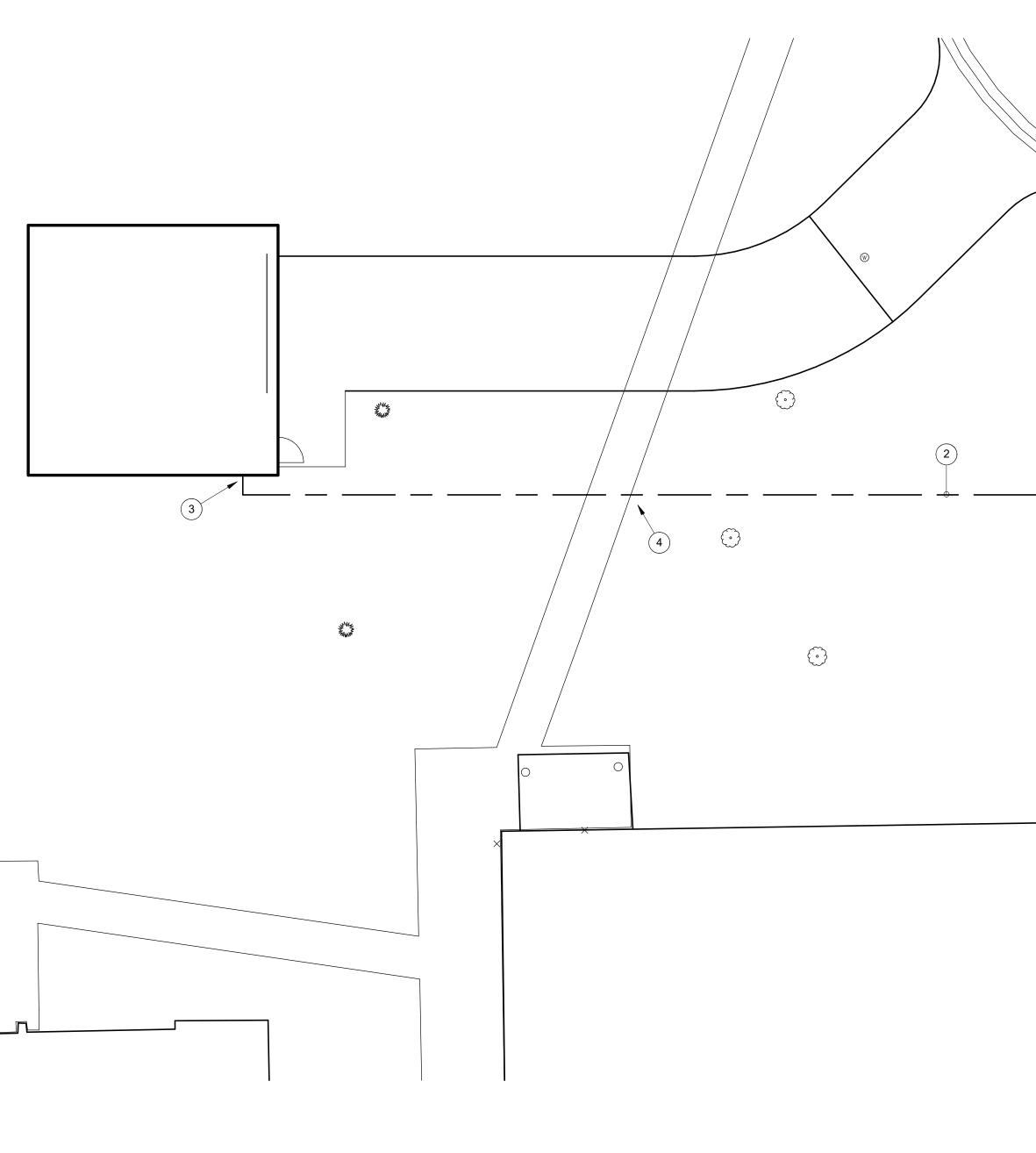






____L<u>n_</u>

MDP LOCATED IN ELECTRICAL EQUIPMENT ROOM





RENOVATION LEGEND:

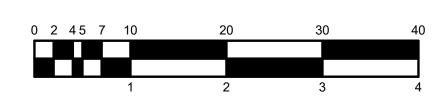
WORK TO BE INSTALLED WORK TO REMAIN

GENERAL NOTES: 1. SEE E-001 FOR GENERAL NOTES.

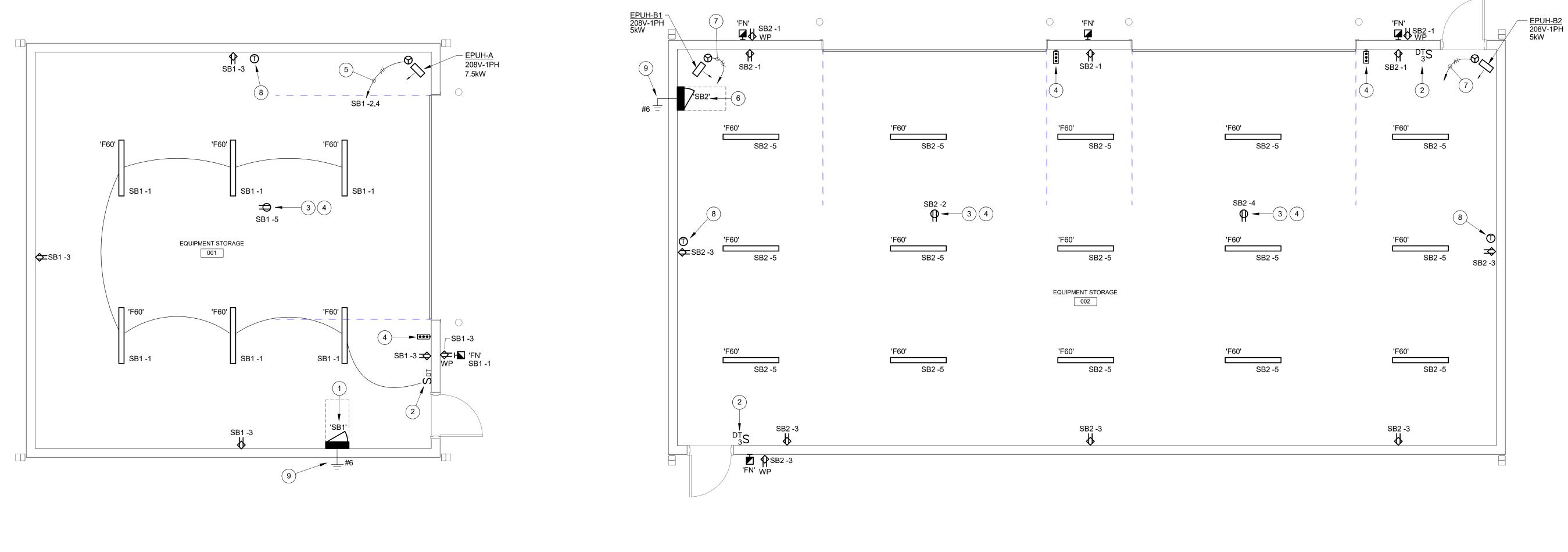
PLAN NOTES:

- FEED OUTDOOR STORAGE BUILDING FROM SPARE 60A-3P BREAKER (USING 2 POLES FOR SINGLE PHASE SERVICE).
- 3#4, 1#6G 2"C PVC SCHEDULE 80 BURIED AT 18"BELOW GRADE. PROVIDE TRACEABLE WARNING TAPE AT 12" BELOW GRADE.
- 3. WHERE EXPOSED, THE PVC RACEWAY TO BE CONVERTED TO GRS. 4. DIRECTIONAL BORE UNDER EXISTING CONCRETE WALKWAY.

 \bigcirc ____ 3 ET _____ MDP'



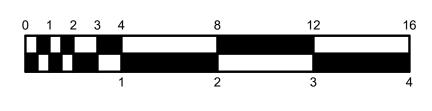




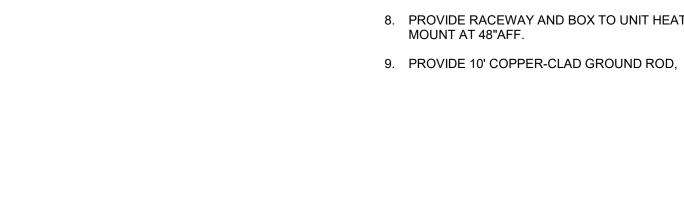


1 GROUND FLOOR - BRENTWOOD - ELECTRICAL SCALE: 1/4" = 1'-0"





2 GROUND FLOOR - CLARKS CREEK - ELECTRICAL SCALE: 1/4" = 1'-0"



PLAN NOTES:

48"AFF.

GENERAL NOTES:

1. SEE E-001 FOR GENERAL NOTES.

6. RECEPTACLE DEVICE COLOR: IVORY

1. PROVIDE 120/240VAC, 1PH, 16-CKT, NEMA 1 LOAD CENTER WITH 60A MAIN BREAKER.

2. INTERIOR LIGHT FIXTURES TO BE SURFACE MOUNTED TO CEILING.

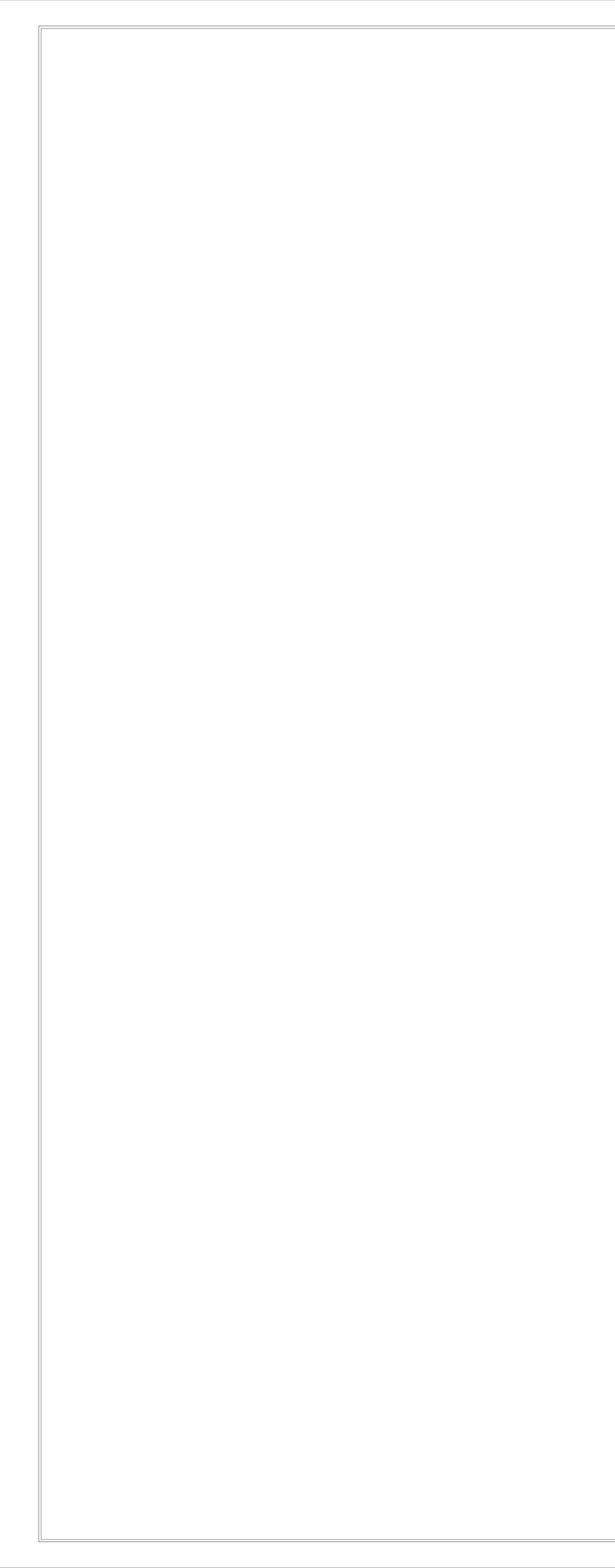
4. MOUNT INTERIOR WALL RECEPTACLES IN STORAGE BUILDINGS AT

5. PROVIDE WEATHERPROOF, IN-USE COVERS ON EXTERIOR OUTLETS.

3. EXTERIOR LIGHT FIXTURES TO BE MOUNED AT 9'-0"AFF.

- 2. PROVIDE LEVITON #DT202 5-BUTTON DIGITAL COUNTDOWN TIMER FOR LIGHTS. BUTTONS TO BE SET AT 15/30/60/120 MINUTE INTERVALS. WHEN TIMERS ARE CONNECTED IN A 3-WAY CONTROL, EITHER TIMER CAN TURN ON OR OFF THE LOAD WITH BOTH TIMERS
- SHOWING THE SAME COUNTDOWN LED SEQUENCE. COLOR: IVORY. 3. MOUNT RECEPTACLE ON CEILING FOR GARAGE DOOR OPERATOR. RECEPTACLE TO BE FED FROM GFCI BREAKER. COORDINATE EXACT
- LOCATION WITH OVERHEAD DOOR PROVIDER.
- 4. OVERHEAD DOOR OPERATOR AND 3-BUTTON CONTROL TO BE PROVIDED AND INSTALLED BY OVERHEAD DOOR PROVIDER.
- 5. 2#8, 1#10G 3/4"C 6. PROVIDE 120/240VAC, 1PH, 16-CKT, NEMA 1 POAD CENTER WITH 100A MAIN BREAKER.
- 7. 2#10, 1#10G 3/4"C 8. PROVIDE RACEWAY AND BOX TO UNIT HEATER THERMOSTAT.





	ELECTRIC UNIT HEATER SCHEDULE															
MARK	DRAWING		SPECIFICATION		MANUFACTERER	El	ECTRIC DA	TA				INSTALLED		WEIGHT		
NO	NAME &/OR PURPOSE	SECTION	NAME	EQUIPMENT TYPE	& MODEL NO	WATTS	VOLTS	PHASE	LENGTH	WIDTH	HEIGHT	HEIGHT	STYLE	(LBS)	REMARKS	
EPUH-A		23 82 39	UNIT HEATERS - ELECTRIC	PROPELLER UNIT HEATERS	TPI F1FUH07CA1 OR EQUAL	7.5	208	1	20	11	13	9			FAN GUARD, HORIZONTAL AND VERTICAL AD. LOUVERS. PROVIDE LINE VOLTAGE THERMOS	
EPUH-B		23 82 39	UNIT HEATERS - ELECTRIC	PROPELLER UNIT HEATERS	TPI F1FUH05003 OR EQUAL	5	208	1	20	11	13	9			FAN GUARD, HORIZONTAL AND VERTICAL AD. LOUVERS. PROVIDE LINE VOLTAGE THERMOS	

	SB1		PANELBOARD SCHEDULE										
OCATION	I: EQUIPMENT STORAGE 001	SCCR (AM	IPS RMS	1	0,000	SE	RVICE: 1	20/208V	1Φ 3-Wire+	Ground	MAIN: MC		
MOUNTIN	SURFACE					NE	MA: 1		1	AMP: 60			
СКТ	DESCRIPTION	NOTE	AMP	POLE	А	В	POLE	AMP	NOTE	DESCRIPTION			
1		NOTE	20 A	1	328 / 3750		-		NOTE				
3	RECEPTACLES		20 A	1		900 / 3750	2	40 A		ELECTRIC UNIT HEAT	ſER		
5	GARAGE DOOR OPERATOR	1	20 A	1	1920 / 0		1			SPACE			
7	SPACE			1		0 / 0	1			SPACE			
9	SPACE			1	0 / 0		1			SPACE			
11	SPARE		20 A	1		0 / 0	1	20 A		SPARE			
13	SPARE		20 A	1	0 / 0		1	20 A		SPARE			
15	SPARE		20 A	1		0 / 0	1	20 A		SPARE			
							·						
			TC	OTALS :	5998 VA	4650 VA							
TOT	AL CONNECTED LOAD (VA): 10648 VA					TOTAL CONNE	CTED LO	AD (AMP	'S): 51 A				
REMARKS	:					NOTES:							
						1. GFCI BREAKE	R						

	SB2				F	PANELB	OAR	DS	CHE	DULE	
LOCATIO	N: EQUIPMENT STORAGE 002	SCCR (AN	IPS RMS	5 1	0,000	SE	iround	MAIN: MCB			
MOUNTIN	I SURFACE					NE	MA: 1				AMP: 100 A
СКТ	DESCRIPTION	NOTE	AMP	POLE	A	В	POLE	AMP	NOTE	DESCRIPTION	
1	RECEPTACLES - NORTH		20 A	1	900 / 1920		1	20 A	1	GARAGE DOOR OPERAT	OR - WEST
3	RECEPTS - EAST/WEST/SOUTH		20 A	1		1080 / 1920	1	20 A	1	GARAGE DOOR OPERAT	OR - EAST
5	LIGHTING		20 A	1	720 / 0		1			SPACE	
7			20.4	0		2500 / 2500		20.4			
9	ELECTRIC UNIT HEATER - WEST		30 A	2	2500 / 2500		2	30 A		ELECTRIC UNIT HEATE	R - EAST
11	SPARE		20 A	1		0 / 0	1	20 A		SPARE	
13	SPARE		20 A	1	0 / 0		1	20 A		SPARE	
15	SPARE		20 A	1		0 / 0	1	20 A		SPARE	
			Т	OTALS :	8540 VA	8000 VA					
TO	TAL CONNECTED LOAD (VA): 16540 VA					TOTAL CONNE	ECTED LO	ad (amp	'S): 80 A		
REMARKS	S:					NOTES:					
						GFCI BREAKER					

	LIGHT FIXTURE SCHEDULE													
MARK	DESCRIPTION	MOUNTING	WATTS	CRI	COLOR	LUMENS	VOLTS	MANUFACTURER(S)	Ν					
F60	4-FOOT LENSED INDUSTRIAL, FORMED STEEL HOUSING, WHITE FINISH, SEMI-FROST ACRYLIC DIFFUSER.	SURFACE/ CHAIN HUNG	48 W	80	4000K	5129	120-277V	COLUMBIA MPS SERIES CREE LS4 SERIES LITHONIA ZL1D SERIES METALUX SNLED SERIES						
FN	ARCHITECTURAL WALL PACK, WET LOCATION LISTED, FINISH: MATTE DARK BRONZE, INTEGRAL PHOTOCELL.	SURFACE WALL	40 W	70	4000K	4000	120-277V	HUBBELL SG SERIES LITHONIA WPX SERIES LUMARK XTOR SERIES						

