

# SITE DEVELOPMENT PLANS FOR HALLSVILLE ISD BOBCAT STADIUM PARKING LOT IMPROVEMENT

2 BOBCAT LANE  
HALLSVILLE, TX 75650

PREPARED BY:



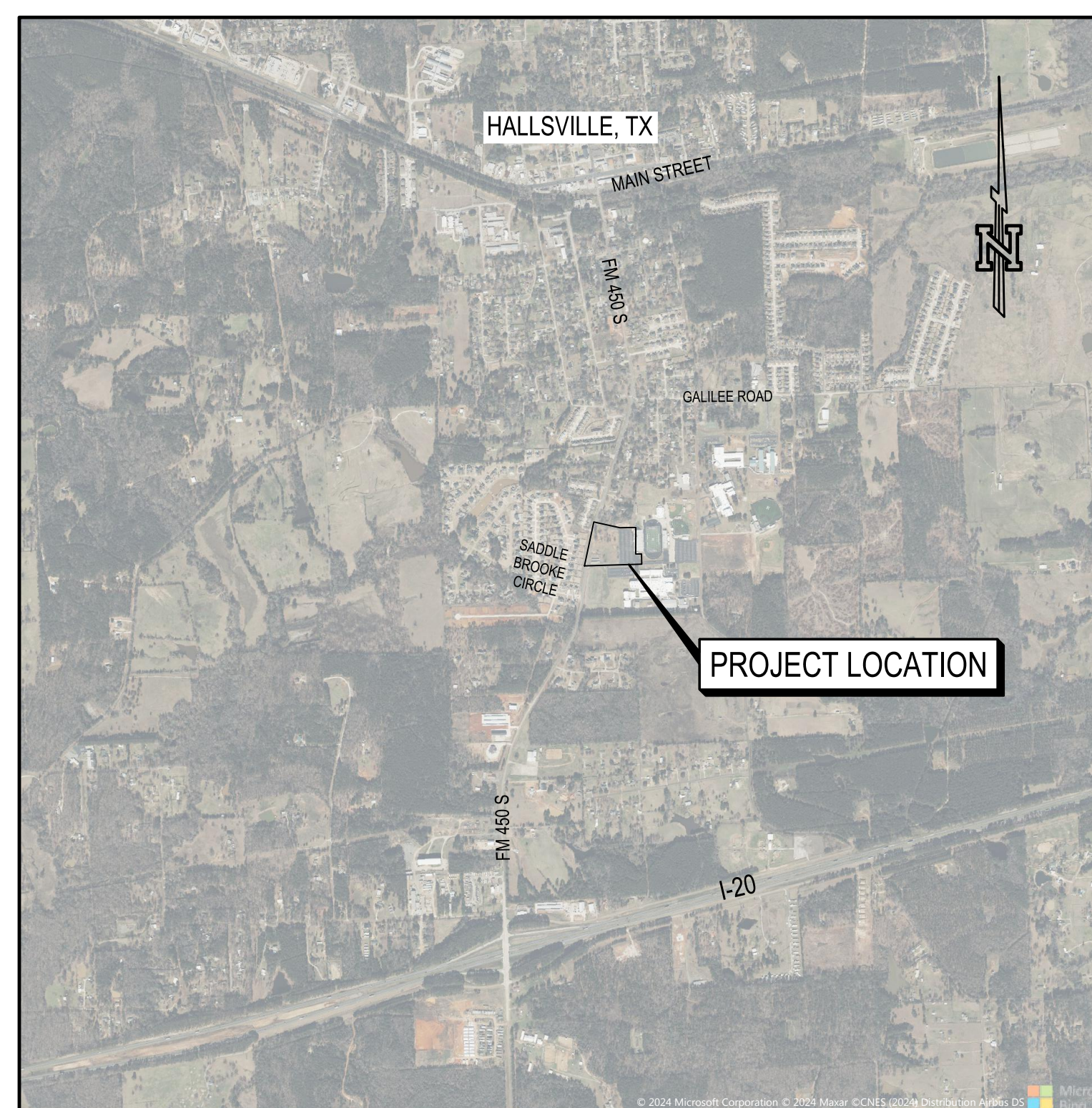
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JOE W. HART, III, P.E.

9/13/2024

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APPROVED BY:

HALLSVILLE INDEPENDENT SCHOOL DISTRICT

SUPERINTENDENT:

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HALLSVILLE, TX 75650

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SCHOOL BOARD MEMBERS:

JAY NELSON, PRESIDENT

DALE HEANEY, VICE PRESIDENT

TROY CRAFTON, SECRETARY

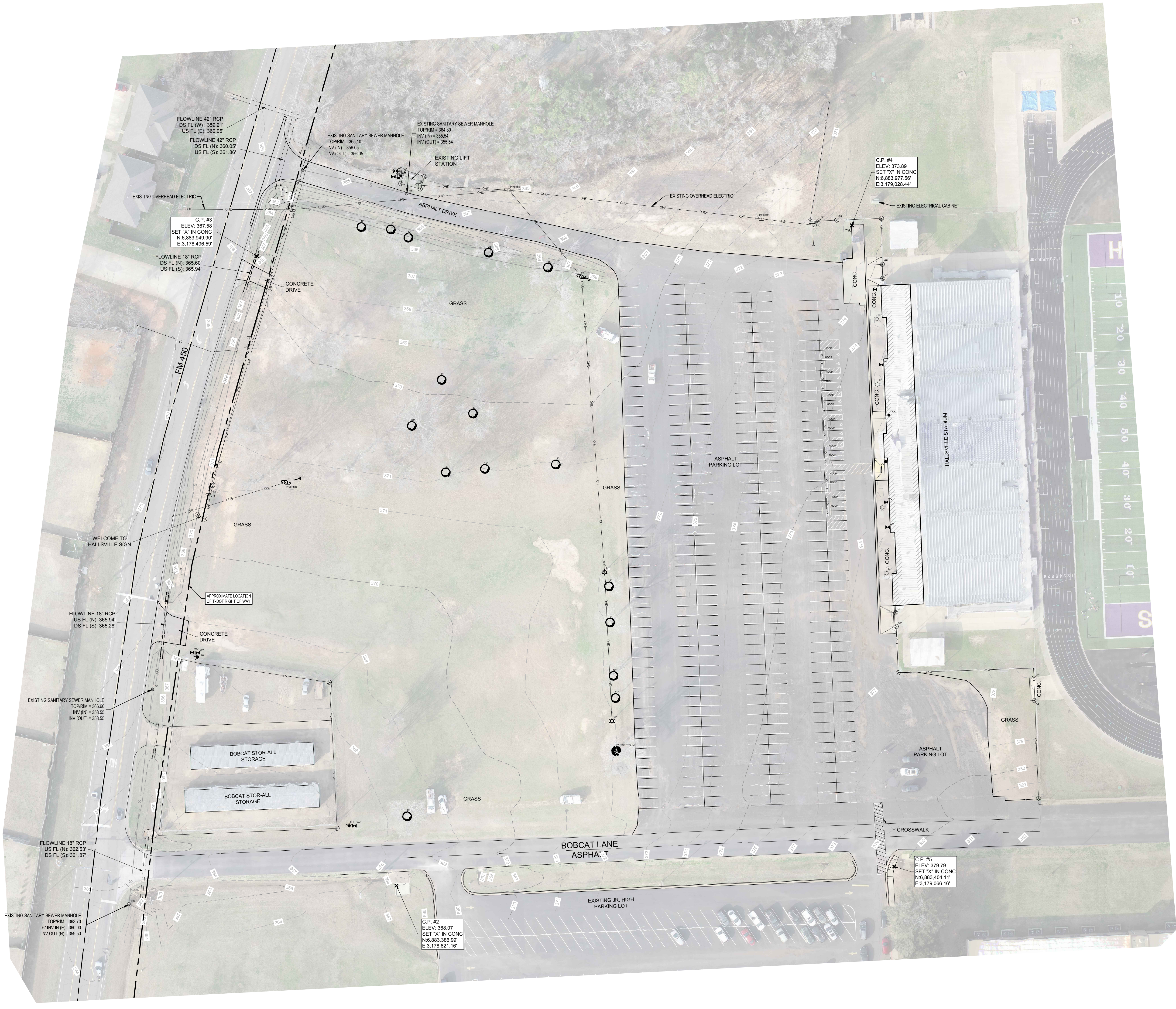
DOUG McGARVEY, ASSISTANT SECRETARY

JASON AINSWORTH, TRUSTEE

LEE GAW, TRUSTEE

SHANE GOSWICK, TRUSTEE

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

GRAPHIC SCALE  
 1 inch = 40 ft.

**LEGEND**

ALL UTILITIES ARE EXISTING UNLESS NOTED OTHERWISE

	BOUNDARY LINE		INDICATES PROPOSED		
	EASEMENT LINE		INDICATES TYPE OF LINE		INDICATES SIZE OF LINE
	FENCE LINE				
	WATER LINE				
	SANITARY SEWER LINE				
	OVERHEAD ELECTRIC / TELEPHONE LINE				
	UNDERGROUND ELECTRIC LINE				
	GAS LINE				
	FIRE LANE				
	SURFACE DRAINAGE FLOWLINE				
	STORM SEWER PIPE				
	STORM SEWER MANHOLE				
	STORM SEWER DROP INLET				
	STORM SEWER HEADWALL / S.E.T.				
	SANITARY SEWER MANHOLE				
	SANITARY SEWER CLEANOUT				
	WATER METER				
	WATER VALVE				
	FIRE DEPARTMENT CONNECTION				
	FIRE HYDRANT				
	IRRIGATION CONTROL VALVE				
	POWER POLE				
	LIGHT POLE				
	GUY WIRE				
	SIGN				
	ELECTRIC TRANSFORMER PAD				

**TREE LEGEND**

- OAK TREE (1)
- PINE TREES (2)
- SWEETGUM TREES (1)
- OTHER TREES (42)

**TOPOGRAPHIC SURVEY NOTE**

EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS PREPARED BY JOHNSON & PACE INCORPORATED. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW. THE ENGINEER'S SEAL ON THESE PLANS DOES NOT APPLY TO THE PROPERTY BOUNDARY INFORMATION SHOWN HEREON.

**REFERENCE MARKERS**

IF THE CONTRACTOR RELOCATES REFERENCE MARKERS WITH A NEW REFERENCE MARKER, IT SHALL BE LOCATED WITHIN A HORIZONTAL AND VERTICAL TOLERANCE OF 0.10'

CP #2	SET 'X' IN CONCRETE NORTHING - 6,883,386.89 EASTING - 3,178,621.16 ELEVATION - 368.07	CP #4	SET 'X' IN CONCRETE NORTHING - 6,883,977.56 EASTING - 3,179,028.44 ELEVATION - 373.89
CP #3	SET 'X' IN CONCRETE NORTHING - 6,883,949.90 EASTING - 3,178,496.59 ELEVATION - 367.56	CP #5	SET 'X' IN CONCRETE NORTHING - 6,883,404.11 EASTING - 3,179,096.16 ELEVATION - 379.97

**\*\*CAUTION\*\* - NOTICE TO CONTRACTOR**

THE CONTRACTOR IS PUT ON NOTICE THAT THERE MAY BE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, SUCH AS WATER, SEWER, GAS, PIPELINE, TELEPHONE AND ELECTRIC. SOME MAY BE ABANDONED WHILE MANY ARE ACTIVE. EXISTING UTILITIES SHOWN ON THE PLANS REPRESENT A DILIGENT EFFORT TO SHOW THEIR APPROXIMATE LOCATION.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS. DAMAGES SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENT SHOWN ON THE PLANS.

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 TYPE: E-4811

**HALLSVILLE I.S.D.  
 BOBCAT STADIUM  
 PARKING LOT EXPANSION  
 HALLSVILLE, TEXAS**

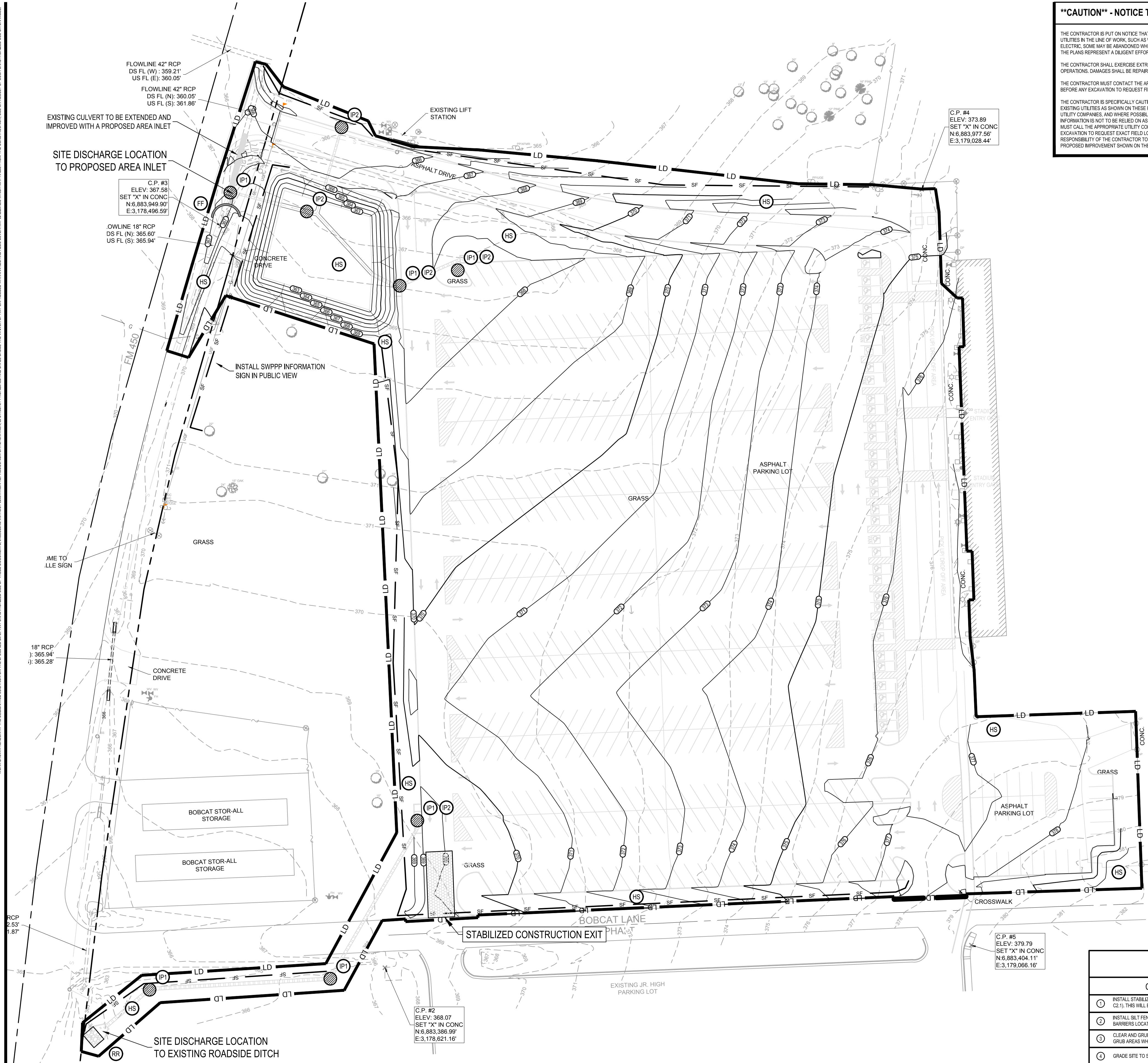
**REVISIONS**

NO.	DESCRIPTION	BY	DATE

**EXISTING SITE PLAN**  
 ISSUED FOR BIDDING

DATE	07/22/2024
ISSUED BY	JMC
APPROVED BY	BDB
SCALE	1"=40'
REVISION NO.	B
SHEET NO.	C1.0

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THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS. DAMAGES SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENT SHOWN ON THE PLANS.

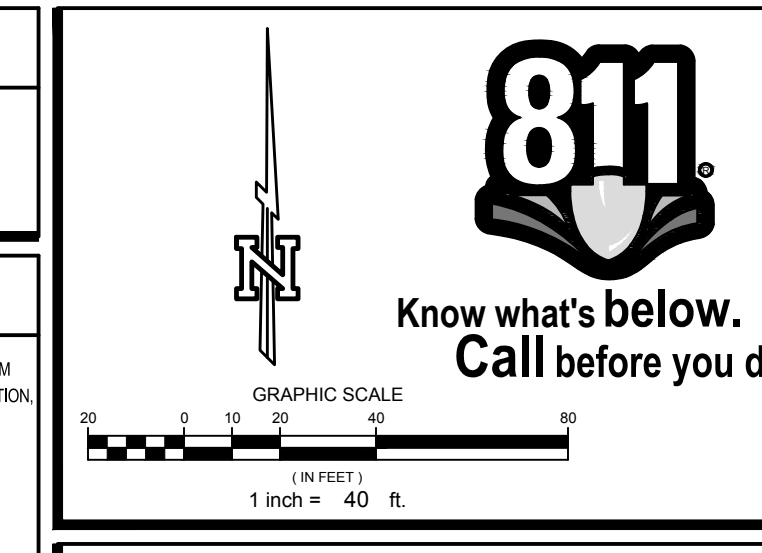
**OWNER/DEVELOPER CONTACT INFORMATION**

HALLSVILLE INDEPENDENT SCHOOL DISTRICT  
 MATT TUCKER, MAINTENANCE DIRECTOR  
 MTUCKER@HISD.COM  
 (937) 668-5890 ext. 5575

**SITE DESCRIPTION**

THE SITE IS LOCATED IN HALLSVILLE, TX, AT THE NORTHEAST CORNER OF THE INTERSECTION OF FM 450 AND BOBCAT LANE. CONSTRUCTION ACTIVITIES WILL CONSIST OF GRADING, UTILITY INSTALLATION, STORM SEWER INFRASTRUCTURE, PAVING AND STRIPING.

LATITUDE: NORTH 32 DEG 20 MIN 23 SEC  
 LONGITUDE: WEST 94 DEG 34 MIN 26 SEC  
 (NAD 83, TEXAS STATE PLANES, NORTH CENTRAL ZONE)



**DISTURBED AREA**

TOTAL DISTURBED AREA = 8.2 ACRES  
 PRE DEVELOPED RUNOFF COEFFICIENT "C" = 0.85  
 POST DEVELOPED RUNOFF COEFFICIENT "C" = 0.85

**ADDING/RELOCATING BMP'S**

CONTRACTOR SHALL RELOCATE OR ADD TO THE EXISTING BMP'S AS NECESSARY TO ENSURE NO SEDIMENT LOAD RUNOFF EXITS THE SITE.

**STABILIZATION NOTE**

ALL NON-PAVED AREAS WITHIN THE LIMITS OF THIS PROJECT SHALL RECEIVE 4" OF CLEAN TOPSOIL AND HYDROSEED (UNLESS CALLED OUT FOR BLOCK SOD). CONTRACTOR IS FULLY RESPONSIBLE TO ENSURE THAT 4" OF TOPSOIL IS IN PLACE AND GRASS IS ESTABLISHED AT THE CLOSEOUT OF THE PROJECT. IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE, THE CONTRACTOR MUST IMPORT CLEAN TOPSOIL TO SATISFY THE REQUIREMENTS OF THESE PLANS AND SPECIFICATIONS. ALL AREAS DISTURBED OUTSIDE THE PROPERTY BOUNDARY SHALL ALSO BE HYDROSEED OR SODDED AND COVER SHALL BE ESTABLISHED TO PREVENT EROSION.

CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WATERING UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED, FREE OF WEEDS WITH COVERAGE EXCEEDING 90 PERCENT OVER ANY 15 SQUARE FOOT AREA AND BARE SPOTS NOT EXCEEDING 5% INCHES.

**REFERENCE MARKERS**

IF THE CONTRACTOR RELOCATES REFERENCE MARKERS WITH A NEW REFERENCE MARKER, IT SHALL BE LOCATED WITHIN A HORIZONTAL AND VERTICAL TOLERANCE OF 0.10'

CP #10001 SET "X" IN CONCRETE NORTHING - 6,906,889.37 EASTING - 3,128,804.57 ELEVATION - 382.69'	CP #10002 SET "SPINE" NORTHING - 6,906,882.60 EASTING - 3,128,547.97 ELEVATION - 382.69'
CP #10002 SET "X" IN CONCRETE NORTHING - 6,906,889.37 EASTING - 3,125,218.82 ELEVATION - 383.04'	SEE SHEET C3.0 FOR POINT LOCATION MAP

**TOPOGRAPHIC SURVEY NOTE**

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**\*\*TEXAS ONE CALL SYSTEM\*\***

AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-254-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

**PERMITS NOTE**

CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED BY FEDERAL, STATE, OR LOCAL CODES AND/OR UTILITY SERVICE COMPANIES & SHALL FURNISH ALL REQUIRED PERMITS TO THE CITY OF LONGVIEW, PRIOR TO START OF CONSTRUCTION.

**INSPECTIONS/CERTIFICATIONS NOTE**

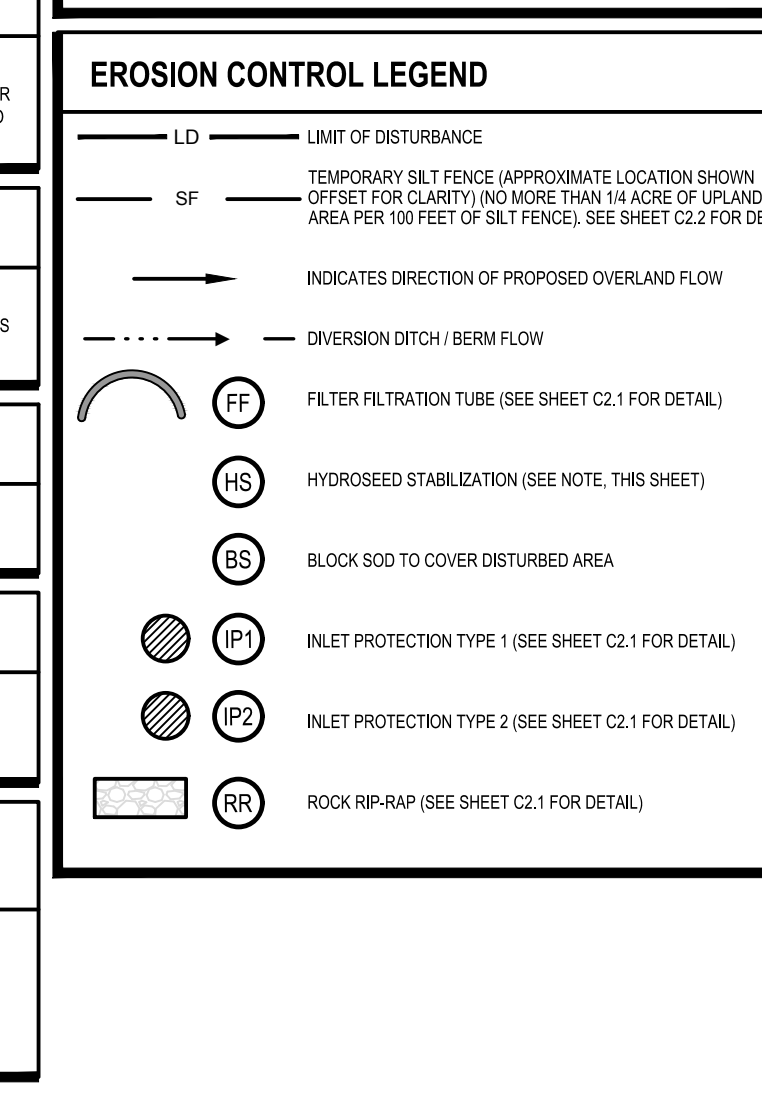
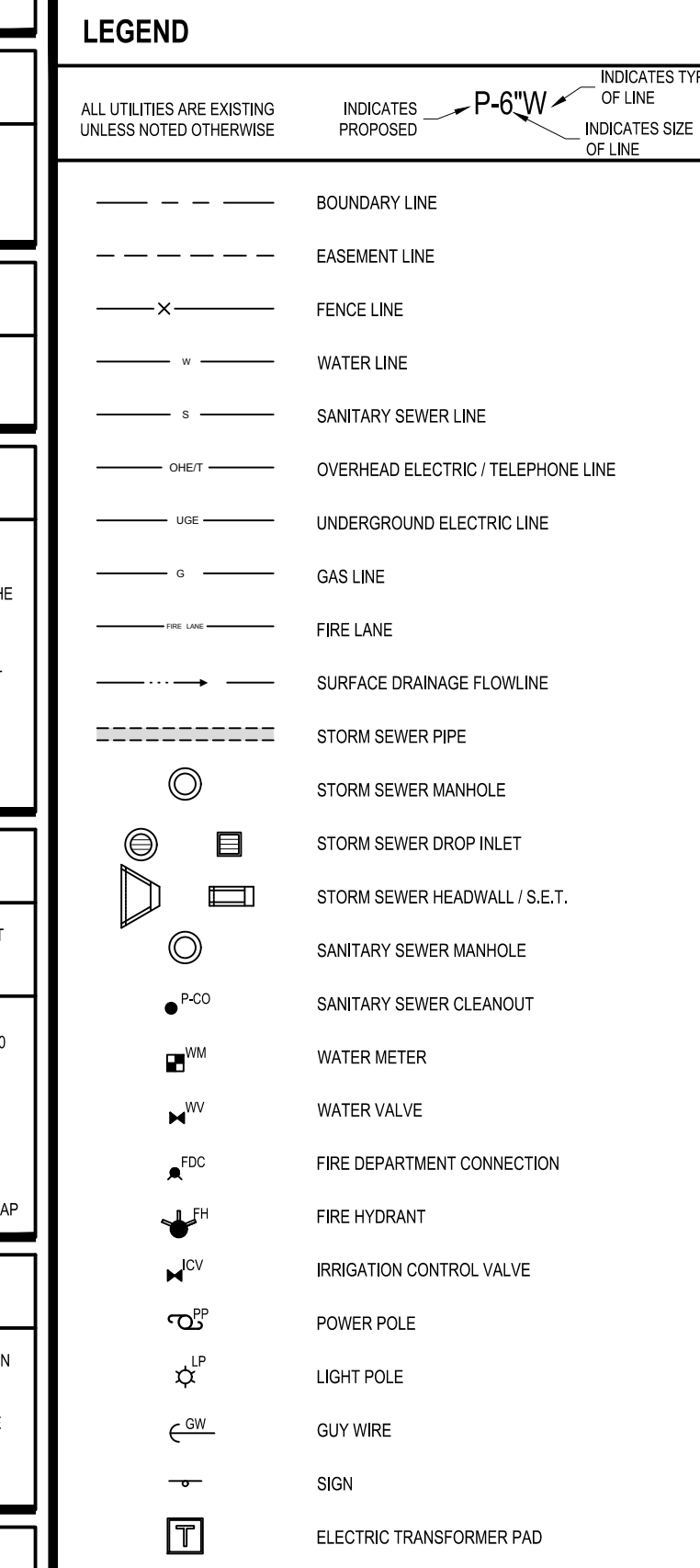
ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY LOCAL CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO SUBSTANTIAL PROJECT COMPLETION.

**WEATHER NOTE**

CONTRACTOR SHALL CAREFULLY MONITOR WEATHER AND PREPARE FOR EXPECTED EVENTS. SPECIAL CARE SHALL BE TAKEN TO EXAMINE SITE PRIOR TO WEEKENDS OR ABSENCES FROM THE WORKSITE.

**LOCATION OF OFF-SITE MATERIAL, WASTE, BORROW, FILL, OR EQUIPMENT STORAGE AREAS**

CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE LOCATIONS OF OFF-SITE MATERIAL, WASTE, BORROW, FILL, OR EQUIPMENT STORAGE AREAS ON THIS SITE MAP AND ENSURING THAT EACH LOCATION HAS THE NECESSARY PERMITS IF NOT COVERED UNDER THE TPODS GENERAL PERMIT FOR THIS PROJECT. THE SITE MAP SHALL BE REVISED AND DATED IF THESE LOCATIONS CHANGE.



**SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE**  
 (NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT SCHEDULE)

CONSTRUCTION SEQUENCE	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
1. INSTALL STABILIZED CONSTRUCTION ENTRANCE/EXIT WITH APPROPRIATE SIGNAGE (SEE DETAIL SHEET C2.1). THIS WILL BE THE FIRST CONSTRUCTION WORK ON THE PROJECT.																								
2. INSTALL SILT FENCES AND SEDIMENT TRAP. CONTRACTOR SHALL INSURE THERE ARE SEDIMENT BARRIERS LOCATED DOWN SLOPE FROM CONSTRUCTION ACTIVITIES THAT DISTURB SITE SOIL.																								
3. CLEAR AND GRUB SITE ONLY AS NEEDED FOR CONSTRUCTION. CONTRACTOR SHALL NOT CLEAR AND GRUB AREAS WHERE CONSTRUCTION OPERATIONS DO NOT OCCUR.																								
4. GRADE SITE TO SUBGRADE.																								
5. INSTALL STORM SEWER PIPE AND STRUCTURES.																								
6. INSTALL INLET PROTECTION.																								
7. INSTALL UTILITIES.																								
8. FINISH GRADING FOR SITE SUBGRADE AND BASE.																								
9. PAVE SITE.																								
10. INSTALL PERMANENT SEEDING AND PLANTING.																								
11. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED).																								

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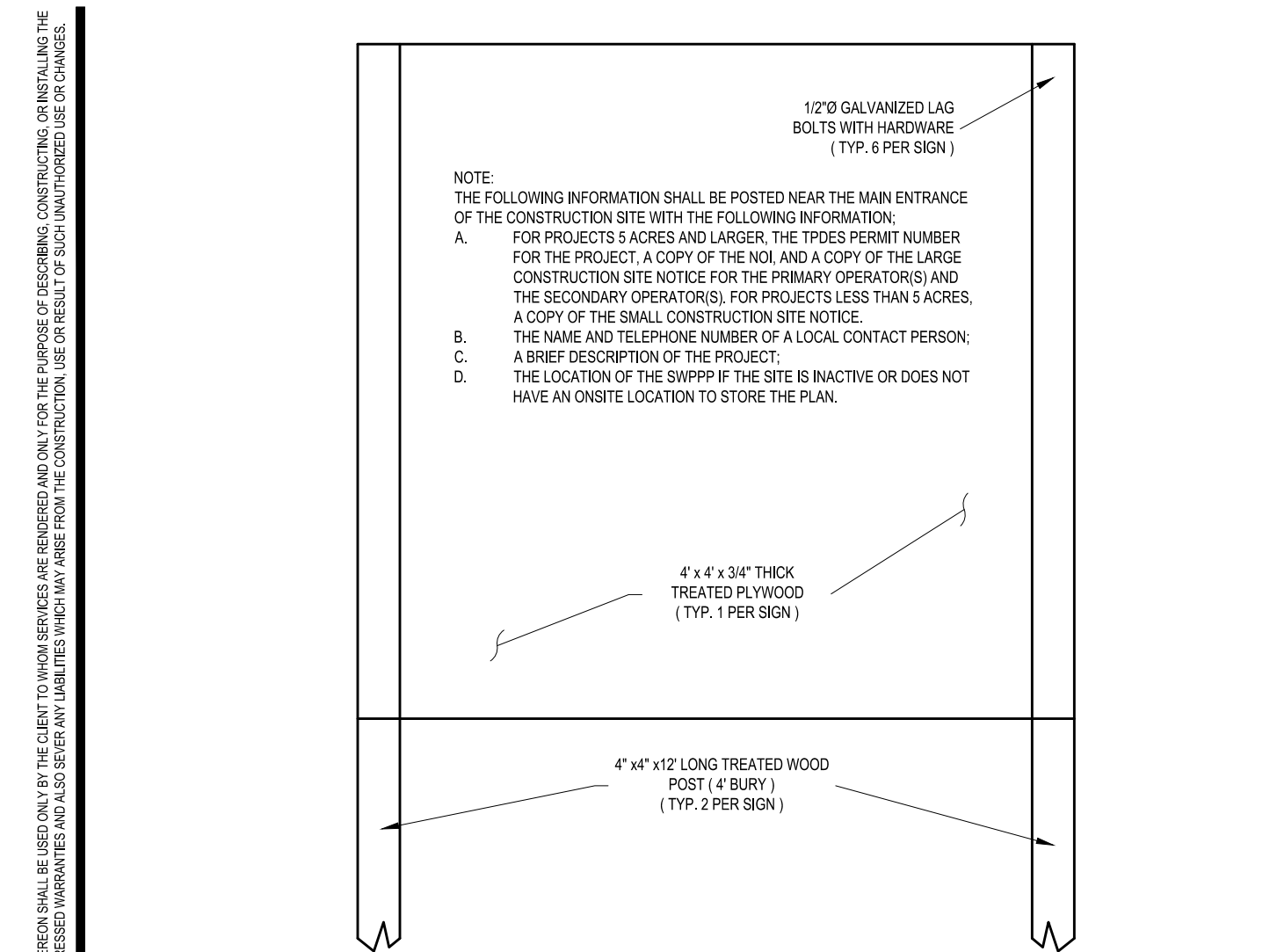
**HALLSVILLE I.S.D.  
 BOBCAT STADIUM  
 PARKING LOT EXPANSION  
 HALLSVILLE, TEXAS**

**REVISIONS**

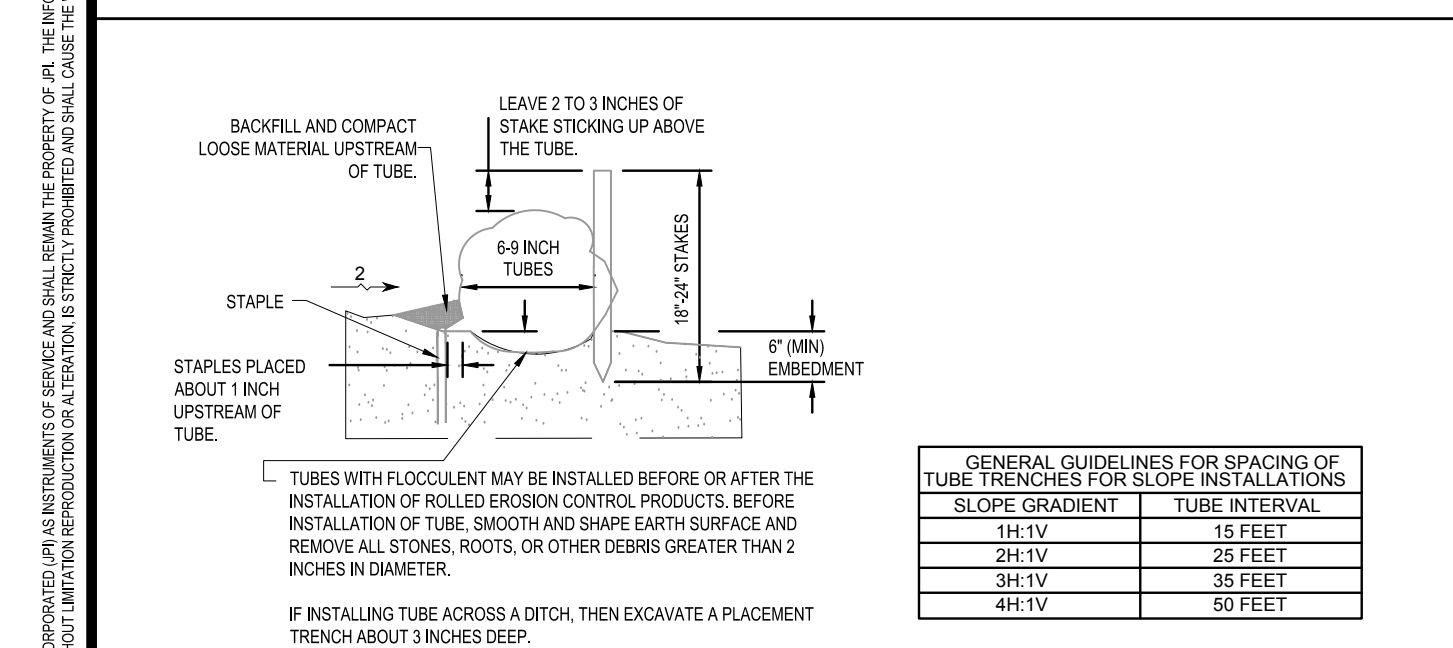
NO.	DESCRIPTION	BY	DATE

**EROSION & SEDIMENT CONTROL PLAN**  
 ISSUED FOR BIDDING

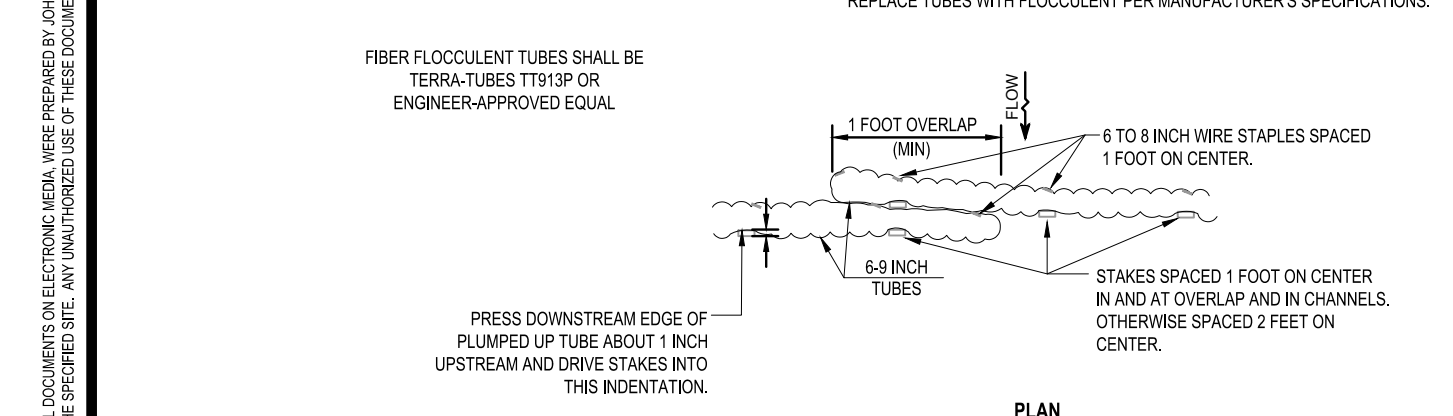
PROJECT NO: 2855-012  
 COUNTY: JMC  
 SHEET NO: BDB  
 DATE: 07/22/2024  
 SCALE: 1"=40'  
 DRAWN BY: JMW  
 CHECKED BY: BDB  
 APPROVED BY: JMW  
 REVISION NO: B  
 PROJECT TITLE: C2.0



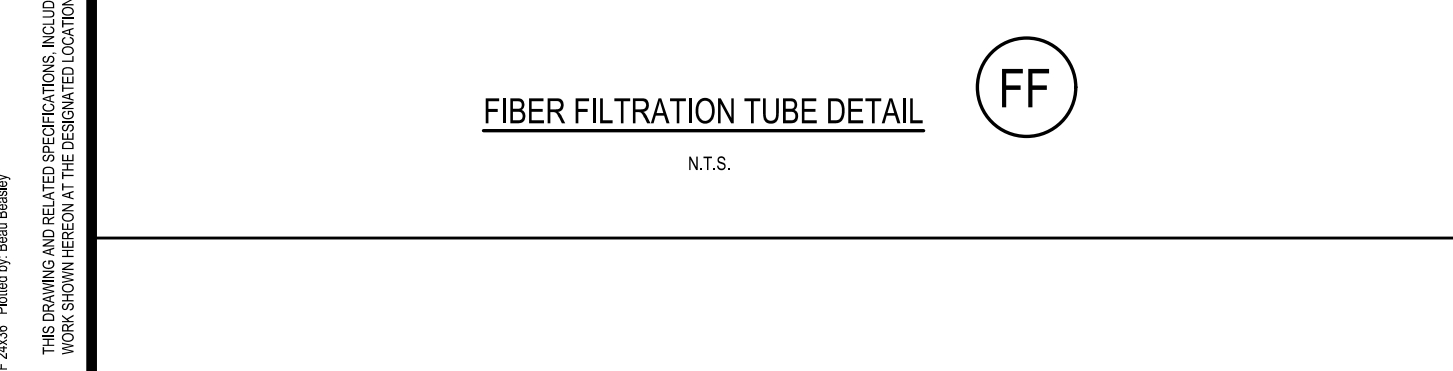
**PROJECT SIGN DETAIL**  
N.T.S.



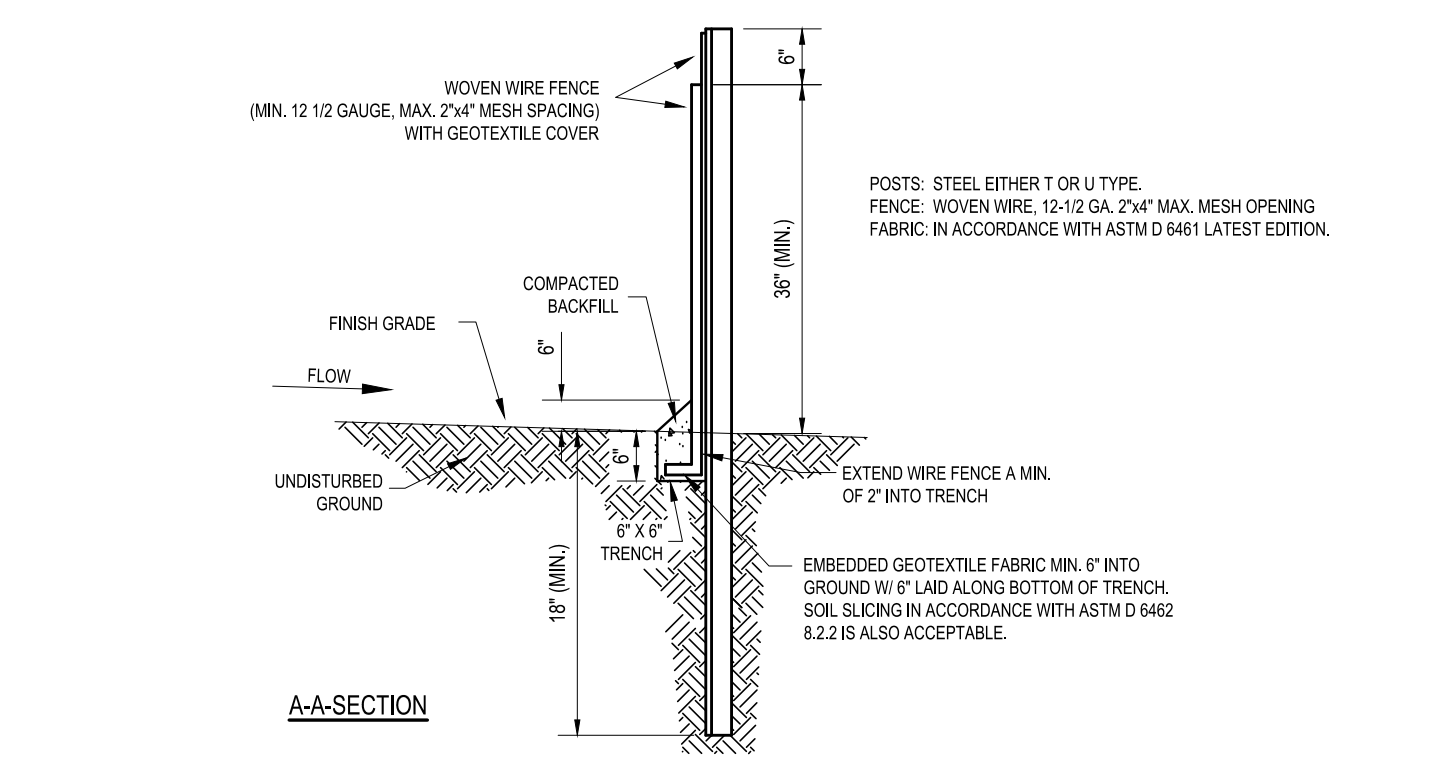
**FIBER FILTRATION TUBE DETAIL**  
N.T.S.



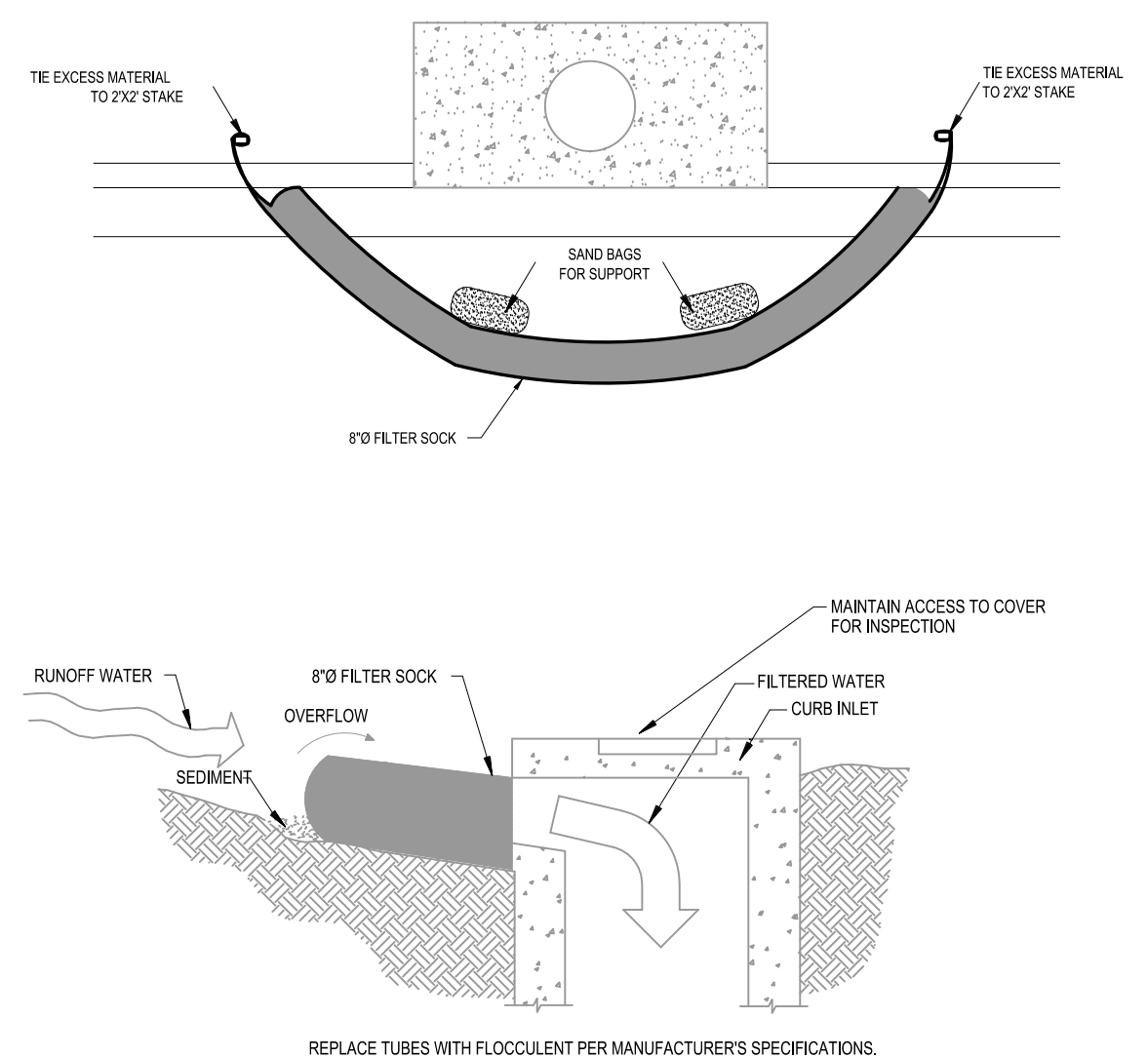
**SEDIMENTATION / SILT FENCE WITH WIRE SUPPORT**  
N.T.S.



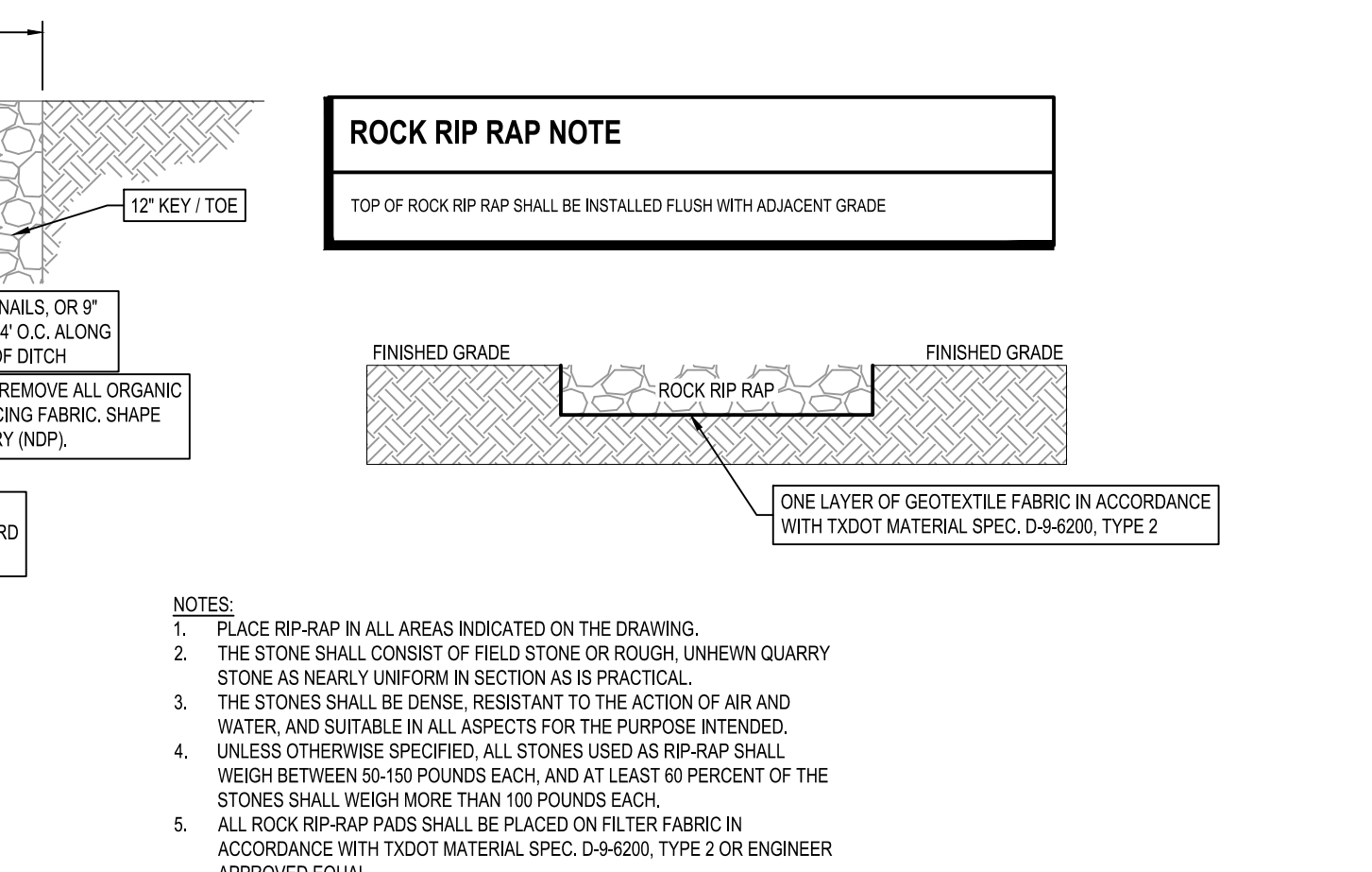
**ROCK RIP-RAP DETAIL**  
N.T.S.



**SILT FENCE INLET PROTECTION**  
N.T.S.



**FILTER SOCK CURB INLET SEDIMENT FILTER**  
N.T.S.



**STABILIZED CONSTRUCTION EXIT**  
N.T.S.

**GENERAL EROSION CONTROL NOTES**

1. THE STORM WATER POLLUTION PREVENTION PLAN IS COMPRISED OF THIS DRAWING (SITE MAP), THE STANDARD DETAILS, THE PLAN NARRATIVE, ATTACHMENTS INCLUDED IN THE SWPPP, PLUS THE PERMIT AND ALL SUBSEQUENT REPORTS AND RELATED DOCUMENTS.
2. ALL CONTRACTORS AND SUBCONTRACTORS INVOLVED WITH STORM WATER POLLUTION PREVENTION SHALL OBTAIN A COPY OF THE STORM WATER POLLUTION PREVENTION PLAN AND THE STATE OF TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM GENERAL PERMIT (TPDES PERMIT) AND BECOME FAMILIAR WITH THEIR CONTENTS.
3. CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES AS REQUIRED BY THE SWPPP. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED AS DICTATED BY CONDITIONS AT NO ADDITIONAL COST OF OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
4. BEST MANAGEMENT PRACTICES (BMPs) AND CONTROLS SHALL CONFORM TO FEDERAL, STATE, OR LOCAL REQUIREMENTS OR MANUAL OF PRACTICE, AS APPLICABLE. CONTRACTOR SHALL IMPLEMENT ADDITIONAL CONTROLS AS DIRECTED BY PERMITTING AGENCY OR OWNER.
5. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR REGULATED WETLANDS, AND MUST BE MAINTAINED ON SITE AT ALL TIMES.
6. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.
7. GENERAL CONTRACTOR SHALL DENOTE ON PLAN THE TEMPORARY PARKING AND STORAGE AREA WHICH SHALL ALSO BE USED AS THE EQUIPMENT MAINTENANCE AND CLEANING AREA, EMPLOYEE PARKING AREA, AND AREA FOR LOCATING PORTABLE FACILITIES, OFFICE TRAILERS, AND TOILET FACILITIES.
8. ALL WASH WATER (CONCRETE TRUCKS, VEHICLE CLEANING, EQUIPMENT CLEANING, ETC.) SHALL BE DETAINED AND PROPERLY TREATED OR DISPOSED.
9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLotation BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEAN UP OILS OR GREASE SPILLS OR LEAKS.
10. DUST ON THE SITE SHALL BE CONTROLLED BY SPRAYING WATER ON DRY AREAS OF THE SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
11. RUBBER, TRASH, GARBAGE, LITTER, OR OTHER SUCH MATERIALS SHALL BE DEPOSITED INTO SEALED CONTAINERS. MATERIALS SHALL BE PREVENTED FROM LEAVING THE PREMISES THROUGH THE ACTION OF WIND OR STORM WATER DISCHARGE INTO DRAINAGE DITCHES OR WATERS OF THE STATE.
12. ALL STORM WATER POLLUTION PREVENTION MEASURES PRESENTED ON THIS PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE INITIATED AS SOON AS PRACTICABLE.
13. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS STOPPED FOR AT LEAST 21 DAYS, SHALL BE TEMPORARILY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS.
14. DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY HAS PERMANENTLY STOPPED SHALL BE PERMANENTLY SEEDED. THESE AREAS SHALL BE SEEDED NO LATER THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY OCCURRING IN THESE AREAS. REFER TO THE GRADING PLAN AND/OR LANDSCAPE PLAN.
15. IF THE ACTION OF VEHICLES TRAVELING OVER THE GRAVEL CONSTRUCTION ENTRANCES IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF DIRT OR MUD, THEN THE TIRES MUST BE WASHED BEFORE THE VEHICLES ENTER A PUBLIC ROAD. IF WASHING IS USED, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.
16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
17. CONTRACTORS OR SUBCONTRACTORS WILL BE RESPONSIBLE FOR REMOVING SEDIMENT IN THE DETENTION POND AND ANY SEDIMENT THAT MAY HAVE COLLECTED IN THE STORM SEWER DRAINAGE SYSTEMS IN CONJUNCTION WITH THE STABILIZATION OF THE SITE.
18. ON-SITE AND OFF-SITE SOIL, STOCKPILE AND BORROW AREAS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION THROUGH IMPLEMENTATION OF BEST MANAGEMENT PRACTICES. STOCKPILE AND BORROW AREA LOCATIONS SHALL BE NOTED ON THE SITE MAP AND PERMITTED IN ACCORDANCE WITH GENERAL PERMIT REQUIREMENTS.
19. SLOPES SHALL BE LEFT IN A ROUGHENED CONDITION DURING THE GRADING PHASE TO REDUCE RUNOFF VELOCITIES AND EROSION.
20. DUE TO THE GRADE CHANGES DURING THE DEVELOPMENT OF THE PROJECT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING THE EROSION CONTROL MEASURES (SILT FENCES, STRAW BALES, ETC.) TO PREVENT EROSION.
21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY. THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

**STORM WATER POLLUTION PREVENTION SYSTEM INSPECTIONS AND MAINTENANCE**

BEFORE THE TIME THIS SWPPP IS IMPLEMENTED AND FINAL SITE STABILIZATION IS ACHIEVED, ALL DISTURBED AREAS AND POLLUTANT CONTROLS MUST BE INSPECTED AT LEAST EVERY FOURTEEN (14) DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. THE PURPOSE OF THESE INSPECTIONS IS TO ASSESS PERFORMANCE OF POLLUTANT CONTROLS. THE INSPECTIONS WILL BE CONDUCTED BY THE GENERAL CONTRACTOR DESIGNATED REPRESENTATIVE. BASED ON THESE INSPECTIONS, THE GENERAL CONTRACTOR WILL DECIDE WHETHER IT IS NECESSARY TO MODIFY THIS SWPPP, ADD OR RELOCATE SEDIMENT BARRIERS, OR WHETHER ELSE MAY BE NEEDED IN ORDER TO PREVENT POLLUTANTS FROM LEAVING THE SITE VIA STORM WATER RUNOFF. THE GENERAL CONTRACTOR HAS THE DUTY TO CAUSE POLLUTANT CONTROL MEASURES TO BE REPAIRED, MODIFIED, MAINTAINED, SUPPLEMENTED, OR WHATEVER ELSE IS NECESSARY IN ORDER TO ACHIEVE EFFECTIVE POLLUTANT CONTROL.

EXAMPLES OF PARTICULAR ITEMS TO EVALUATE DURING SITE INSPECTIONS ARE LISTED BELOW. THIS LIST IS NOT INTENDED TO BE COMPREHENSIVE. DURING EACH INSPECTION THE INSPECTOR MUST EVALUATE OVERALL POLLUTANT CONTROL SYSTEM PERFORMANCE AS WELL AS PARTICULAR DETAILS OF INDIVIDUAL SYSTEM COMPONENTS. ADDITIONAL FACTORS SHOULD BE CONSIDERED AS APPROPRIATE TO THE CIRCUMSTANCES.

LOCATIONS WHERE VEHICLES ENTER AND EXIT THE SITE MUST BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. A STABILIZED CONSTRUCTION ENTRANCE WILL BE CONSTRUCTED WHERE VEHICLES ENTER AND EXIT. THIS ENTRANCE WILL BE MAINTAINED OR SUPPLEMENTED TO PREVENT SEDIMENT FROM LEAVING THE SITE ON VEHICLES.

SEDIMENT BARRIERS MUST BE INSPECTED AND, IF NECESSARY, THEY MUST BE ENLARGED OR CLEANED IN ORDER TO PROVIDE ADDITIONAL CAPACITY. ALL MATERIAL EXCAVATED FROM BEHIND SEDIMENT BARRIERS WILL BE STOCKPILED ON THE UP-SLOPE SIDE. ADDITIONAL SEDIMENT BARRIERS MUST BE CONSTRUCTED AS NEEDED.

INSPECTIONS WILL EVALUATE DISTURBED AREAS AND AREAS USED FOR STORING MATERIALS THAT ARE EXPOSED TO RAINFALL FOR EVIDENCE OF OR THE POTENTIAL FOR POLLUTANTS ENTERING THE DRAINAGE SYSTEM. IF NECESSARY, THE MATERIALS MUST BE COVERED OR ORIGINAL COVER MUST BE REPAIRED OR SUPPLEMENTED. ALSO, PROTECTIVE BERRMS MUST BE CONSTRUCTED, IF NEEDED, IN ORDER TO CONTAIN RUNOFF FROM MATERIAL STORAGE AREAS.

GRASSED AREAS WILL BE INSPECTED TO CONFIRM THAT A HEALTHY STAND OF GRASS IS MAINTAINED. THE SITE HAS ACHIEVED FINAL STABILIZATION ONCE ALL AREAS ARE COVERED WITH BUILDING FOUNDATION OR PAVEMENT, OR HAVE A STAND OF GRASS WITH AT LEAST 70 PERCENT DENSITY. THE DENSITY OF 70 PERCENT OR GREATER MUST BE MAINTAINED TO BE CONSIDERED AS STABILIZED. AREAS MUST BE WATERED, FERTILIZED, AND RESEDED AS NEEDED TO ACHIEVE THIS GOAL. ALL DISCHARGE POINTS MUST BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS.

EXAMPLES FOR MAINTENANCE ITEMS ARE LISTED BELOW. THIS LIST IS NOT INTENDED TO BE COMPREHENSIVE. ADDITIONAL PROCEDURES SHOULD BE CONSIDERED AS APPROPRIATE TO EACH INDIVIDUAL CIRCUMSTANCE.

- A. EROSION AND SEDIMENT CONTROL MEASURES THAT HAVE BEEN IMPROPERLY INSTALLED OR HAVE BEEN DISABLED, RUN-OVER, REMOVED OR OTHERWISE RENDERED INEFFECTIVE MUST BE REPAIRED IMMEDIATELY. MAINTENANCE AND REPAIRS WILL BE CONDUCTED WITHIN 24 HOURS OF INSPECTION REPORT.
  - B. SEDIMENT WILL BE REMOVED FROM BEHIND THE FILTER FABRIC FENCE WHEN IT REACHES ABOUT 1/3 THE HEIGHT OF THE FENCE. SEDIMENT WILL BE REMOVED FROM AROUND THE INLET BARRIERS AND DIMES WHEN THE STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED.
  - C. BASED ON INSPECTION RESULTS, ANY MODIFICATION NECESSARY TO INCREASE THE EFFECTIVENESS OF THIS SWPPP TO AN ACCEPTABLE LEVEL MUST BE MADE WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE INSPECTION REPORTS MUST BE COMPLETED ENTIRELY AND ADDITIONAL REMARKS SHOULD BE INCLUDED IF NEEDED TO FULLY DESCRIBE A SITUATION. AN IMPORTANT ASPECT OF THE INSPECTION REPORT IS THE DESCRIPTION OF ADDITIONAL MEASURES THAT NEED TO BE TAKEN TO ENHANCE AN EFFECTIVE SWPPP. THE INSPECTION REPORT MUST IDENTIFY WHETHER THE SITE IS FULLY COMPLIANT WITH THE SWPPP AT THE TIME OF INSPECTION AND SPECIFICALLY IDENTIFY ALL INCIDENTS OF NON-COMPLIANCE.
  - D. INSPECTION REPORTS MUST BE KEPT ON FILE BY THE GENERAL CONTRACTOR AS AN INTEGRAL PART OF THIS SWPPP FOR AT LEAST THREE YEARS FROM THE DATE OF COMPLETION OF THE PROJECT.
- ULTIMATELY, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO ASSURE THE ADEQUACY OF SITE POLLUTANT DISCHARGE CONTROLS. ACTUAL PHYSICAL SITE CONDITIONS OR CONTRACTOR PRACTICES COULD MAKE IT NECESSARY TO INSTALL MORE STRUCTURAL CONTROLS THAN ARE SHOWN ON THE PLANS. FOR EXAMPLE, LOCALIZED CONCENTRATIONS OF RUNOFF COULD MAKE IT NECESSARY TO INSTALL ADDITIONAL SEDIMENT BARRIERS, ASSESSING THE NEED FOR ADDITIONAL CONTROLS AND IMPLEMENTING THEM OR ADJUSTING EXISTING CONTROLS WILL BE A CONTINUING ASPECT OF THIS SWPPP UNTIL THE SITE ACHIEVES FINAL STABILIZATION.

**EROSION CONTROL MAINTENANCE**

ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, MUST BE MAINTAINED THROUGHOUT THE PROJECT AND NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST EVERY FOURTEEN (14) DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5\"/>

1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR DETRIORATION.
2. ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE FERTILIZED, WATERED, AND RESEDED AS NEEDED.
3. SILT FENCES SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE SILT FENCES WHEN IT REACHES ONE-THIRD THE HEIGHT OF THE SILT FENCE.
4. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND.
5. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND.
6. OUTLET STRUCTURES IN THE SEDIMENTATION BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES. SEDIMENT SHALL BE REMOVED FROM SEDIMENT BASINS OR TRAPS WHEN THE DESIGN CAPACITY HAS BEEN REDUCED BY 50% OR AS REQUIRED BY THE CITY ENGINEER.

**JOHNSON & PACE INCORPORATED**  
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TXPE-04-011

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**HALLSVILLE I.S.D.  
BOBCAT STADIUM  
PARKING LOT EXPANSION  
HALLSVILLE, TEXAS**

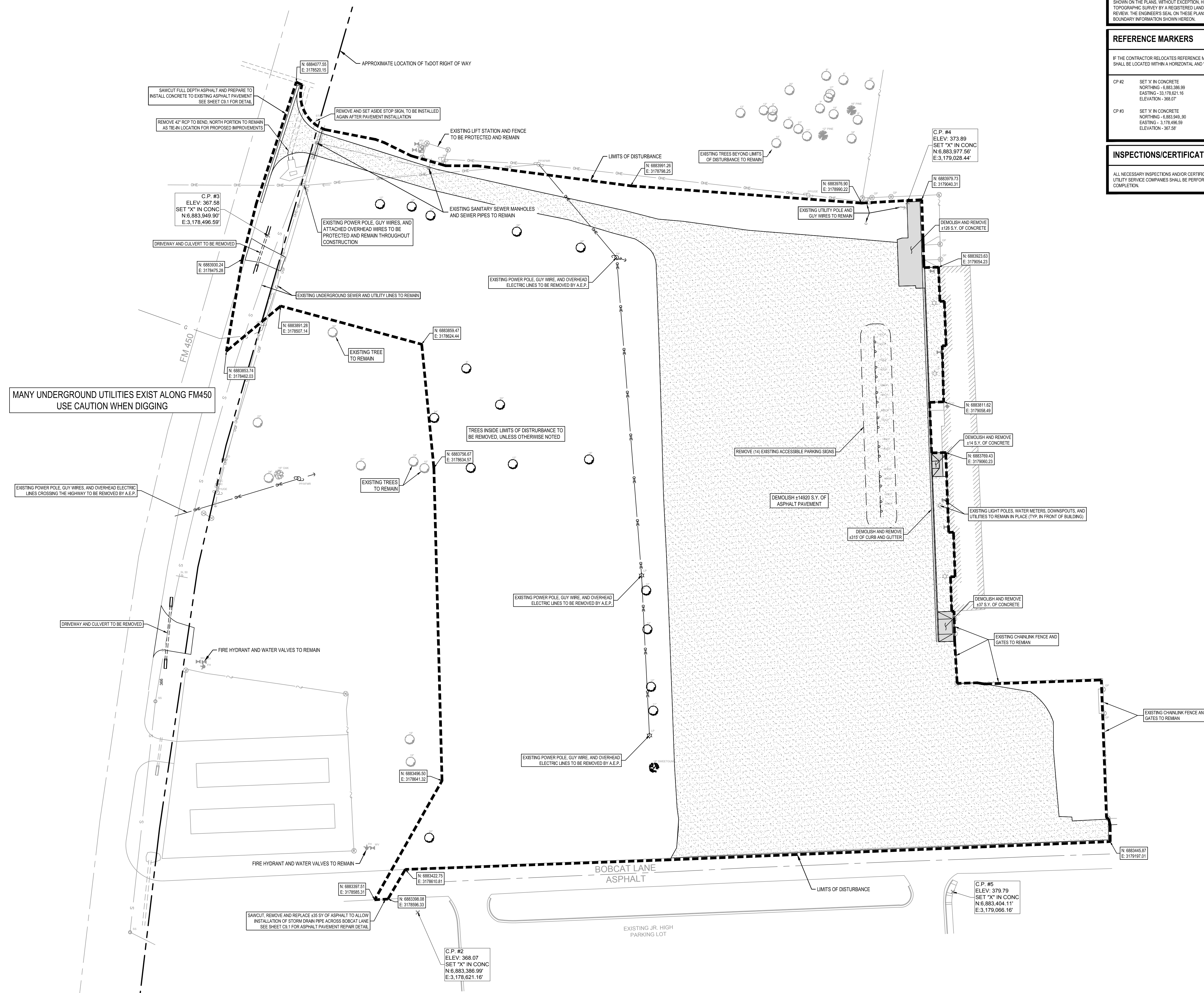
NO.	REVISIONS	DESCRIPTION	BY	DATE					
					NO.	NO.	NO.	NO.	NO.

**EROSION & SEDIMENT CONTROL DETAILS**  
ISSUED FOR BIDDING

DATE: 07/22/2024	APPROVED: N/A	REVISION NO.:
DATE: 07/22/2024	APPROVED: JWH	REVISION NO.:
DATE: 07/22/2024	APPROVED: JWH	REVISION NO.:
DATE: 07/22/2024	APPROVED: JWH	REVISION NO.:

**C2.1**

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**TOPOGRAPHIC SURVEY NOTE**

EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS PREPARED BY JOHNSON & PACE INCORPORATED. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW. THE ENGINEER'S SEAL ON THESE PLANS DOES NOT APPLY TO THE PROPERTY BOUNDARY INFORMATION SHOWN HEREON.

**REFERENCE MARKERS**

IF THE CONTRACTOR RELOCATES REFERENCE MARKERS WITH A NEW REFERENCE MARKER, IT SHALL BE LOCATED WITHIN A HORIZONTAL AND VERTICAL TOLERANCE OF 0.10'

CP #2	SET "X" IN CONCRETE NORTHING - 6,883,386.99 EASTING - 33,178,621.16 ELEVATION - 368.07'	CP #4	SET "X" IN CONCRETE NORTHING - 6,883,377.58 EASTING - 33,179,028.44 ELEVATION - 373.87'
CP #3	SET "X" IN CONCRETE NORTHING - 6,883,949.90 EASTING - 33,178,686.89 ELEVATION - 387.58'	CP #5	SET "X" IN CONCRETE NORTHING - 6,883,404.11 EASTING - 33,179,066.16 ELEVATION - 379.73'

**INSPECTIONS/CERTIFICATIONS NOTE**

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY LOCAL CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO SUBSTANTIAL PROJECT COMPLETION.

**811**  
Know what's below.  
Call before you dig.

GRAPHIC SCALE  
1 inch = 40 ft

**LEGEND**

ALL UTILITIES ARE EXISTING UNLESS NOTED OTHERWISE

	FIRE DEPARTMENT CONNECTION		INDICATES TYPE OF LINE
	WATER METER		INDICATES SIZE OF LINE
	WATER VALVE		
	DETECTOR METER		
	FIRE HYDRANT		
	IRRIGATION CONTROL VALVE		
	BLOWOFF VALVE		
	GAS METER		
	GAS VALVE		
	SEWER CLEANOUT		
	SEWER MANHOLE		
	ELECTRIC PULL BOX		
	ELECTRIC METER		
	ELECTRIC PEDESTAL		
	POWER POLE		
	POWER POLE WITH METER		
	POWER POLE WITH TRANSFORMER		
	POWER POLE WITH SIGNAL LIGHT		
	LIGHT POLE		
	GUY WIRE		
	ELECTRIC TRANSFORMER PAD		
	JUNCTION BOX		
	CURB INLET		
	GRATE INLET		
	HEADWALL		
	PIPE BOLLARD		
	BOUNDARY MARKER IRON PIPE		
	NUMBER OF PARKING SPACES PER ROW		
	INDICATES TYPE OF CURB AND GUTTER TO BE INSTALLED (SEE DETAIL SHEET C4-1)		
	WATER LINE		
	SANITARY SEWER		
	CURB AND GUTTER		
	STORM SEWER		
	OVERHEAD ELECTRIC LINE		
	GAS LINE		
	UNDERGROUND ELECTRIC LINE		
	UNDERGROUND TELEPHONIC CABLE LINE		
	FIRE LANE		
	SIGN		

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**HALLSVILLE I.S.D.  
BOBCAT STADIUM  
PARKING LOT EXPANSION  
HALLSVILLE, TEXAS**

**REVISIONS**

NO.	DATE	DESCRIPTION

**GENERAL DEMOLITION NOTES**

- ALL WORK AND MATERIALS SHALL COMPLY WITH ALL CITY, COUNTY, STATE, FEDERAL, AND OSHA REGULATION.
- CONTRACTOR SHALL REFER TO THE AS-BUILT PLANS FOR EXACT LOCATIONS AND DIMENSIONS OF SLOPED PAVING, RAMPS, SIDEWALKS, EXIT PORCHES, PRECISE BUILDING DIMENSIONS, EXACT BUILDING UTILITY ENTRANCE LOCATIONS, TOTAL NUMBER, LOCATION, AND SIZE OF DOWNSPOUTS AND ANY OTHER APPURTENANCES WHICH ARE CONNECTED TO THE BUILDING.
- ALL DIMENSIONS AND BOUNDARIES TO THE BACK OF CURB, CENTER OR END OF STRIPE, FACE OF BUILDING, OR EDGE OF PAVEMENT, UNLESS OTHERWISE NOTED.
- CONTRACTOR IS REQUIRED TO REMOVE OR RELOCATE, IN A PROPER MANNER, EXISTING IMPROVEMENTS/NATURAL FEATURES TO ALLOW FOR CONSTRUCTION OF PROPOSED IMPROVEMENTS INDICATED ON THE PLANS. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH, NO SEPARATE PAY FOR THIS WORK.
- CONTRACTOR IS RESPONSIBLE FOR PROTECTION AND REPLACEMENT OF ALL PROPERTY CORNERS. PROPERTY CORNERS DAMAGED BY CONTRACTOR SHALL BE REPLACED BY A REGISTERED PROFESSIONAL LAND SURVEYOR AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DOCUMENTING ALL EXISTING DAMAGE AND NOTIFY OWNER AND/OR ENGINEER PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING EXISTING ITEMS DAMAGED DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC. DAMAGES SHALL BE REPORTED TO ENGINEER OR RECORD PRIOR TO REPAIR. REPAIRS SHALL BE EQUAL TO, OR BETTER THAN, EXISTING CONDITIONS. PROPOSED CONSTRUCTION ON THIS SITE SHALL COMPLY WITH THE LATEST REVISION OF THE ADA REGULATIONS AND THE TEXAS ACCESSIBILITY STANDARDS (TAS).
- EROSION AND SEDIMENTATION CONTROL DURING CONSTRUCTION SHALL BE IN COMPLIANCE WITH LOCAL AND STATE REQUIREMENTS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING PROPER DRAINAGE THROUGHOUT THE SITE DURING CONSTRUCTION. CARE SHALL BE TAKEN TO PREVENT ANY NEGATIVE IMPACTS TO ADJACENT PROPERTIES.
- CONTRACTOR SHALL CAREFULLY MONITOR WEATHER PATTERNS AND PREPARE FOR EXPECTED EVENTS. SPECIAL CARE SHALL BE TAKEN TO EXAMINE SITE PRIOR TO WEEKENDS OR ABSENCES FROM THE WORKSITE.
- NO HAZARDOUS MATERIALS WERE IDENTIFIED DURING PRELIMINARY SITE INVESTIGATIONS. ANY ITEMS FOUND SUSPECT DURING CONSTRUCTION SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY.

**\*\*CAUTION\*\* - NOTICE TO CONTRACTOR**

THE CONTRACTOR IS PUT ON NOTICE THAT THERE MAY BE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, SUCH AS WATER, SEWER, GAS, FIRE LINE, TELEPHONE AND ELECTRIC. SOME MAY BE ABANDONED WHILE MANY ARE ACTIVE. EXISTING UTILITIES SHOWN ON THE PLANS REPRESENT A DILIGENT EFFORT TO SHOW THEIR APPROXIMATE LOCATION.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS. DAMAGES SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES.

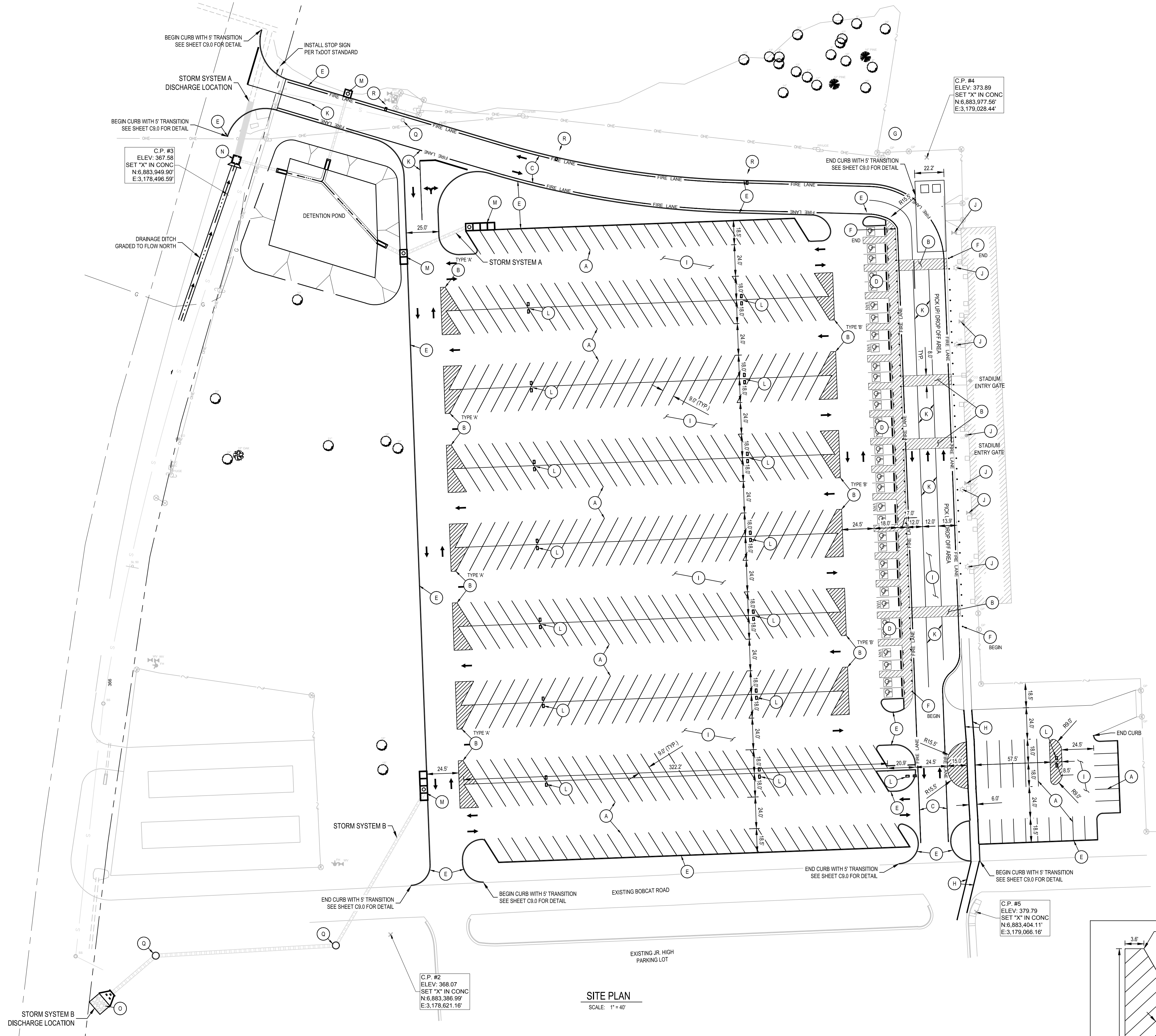
THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENT SHOWN ON THE PLANS.

**DEMOLITION PLAN**

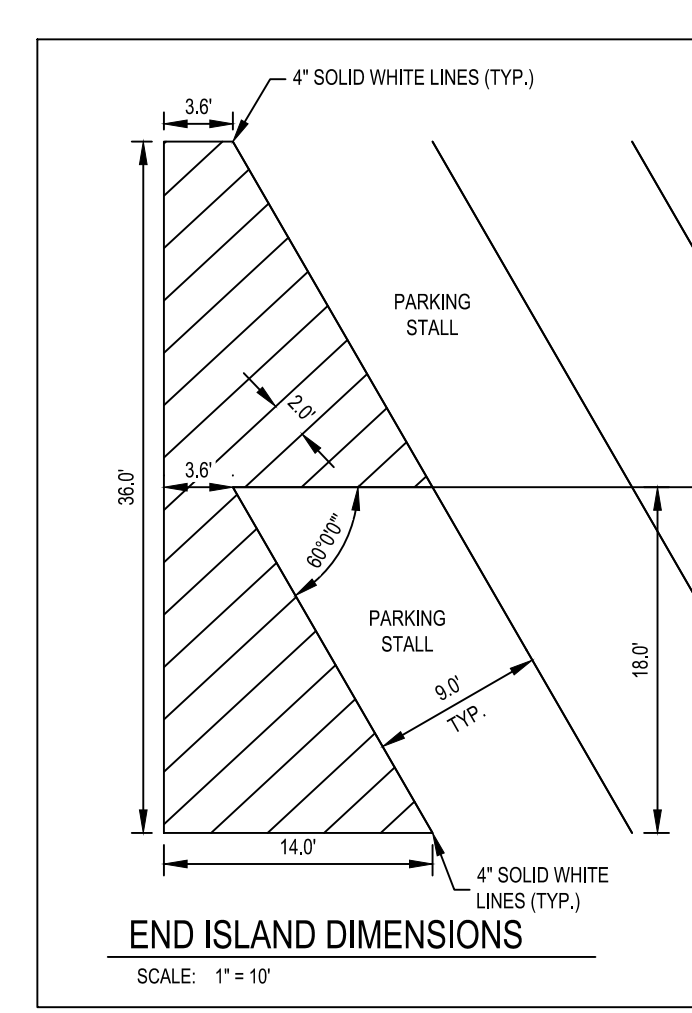
ISSUED FOR BIDDING

DATE: 07/22/2024	SCALE: 1"=40'	REVISIONS: 0
DESIGNER: JMC	APPROVED: BDB	C3.0

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**SITE PLAN**  
SCALE: 1" = 40'



**\*\*CAUTION\*\* - NOTICE TO CONTRACTOR**

THE CONTRACTOR IS PUT ON NOTICE THAT THERE MAY BE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, SUCH AS WATER, SEWER, GAS, FIRELINE, TELEPHONE AND ELECTRIC. SOME MAY BE ABANDONED WHILE MANY ARE ACTIVE. EXISTING UTILITIES SHOWN ON THE PLANS REPRESENT A DILIGENT EFFORT TO SHOW THEIR APPROXIMATE LOCATION.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS. DAMAGES SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENT SHOWN ON THE PLANS.

**\*\*TEXAS ONE CALL SYSTEM\*\***

AS REQUIRED BY THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-444-4411) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

**PERMITS NOTE**

CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED BY FEDERAL, STATE, OR LOCAL CODES AND/OR UTILITY SERVICE COMPANIES PRIOR TO START OF CONSTRUCTION.

**INSPECTIONS/CERTIFICATIONS NOTE**

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY LOCAL CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO SUBSTANTIAL PROJECT COMPLETION.

**PARKING COUNT**

EXISTING PARKING	STANDARD SPACES	ACCESSIBLE SPACES	TOTAL PARKING
344	14	3	361
PROPOSED PARKING	STANDARD SPACES	ACCESSIBLE SPACES	TOTAL PARKING
466	28	5	499

- KEY NOTES AND SYMBOLS LEGEND**
- (A) PARKING AREA STRIPING - 4" SOLID WHITE LINE
  - (B) STRIPED ISLAND - 4" SOLID WHITE STRIPE (2" O.C. @ 45° ANGLE)
  - (C) 6" WIDE FIRE LANE STRIPING PAINTED STRIPE RED WITH "NO PARKING - FIRE LANE" 4" HIGH WITH LETTERING AT 20' O.C. SEE DETAIL SHEET. NOTE: STRIPING SHOWN OFFSET FOR CLARITY.
  - (D) ACCESSIBLE PARKING SPACE (AS SHOWN BELOW)
  - (E) 6" TALL CURB & GUTTER. SEE DETAIL SHEET.
  - (F) PIPE BOLLARDS PLACED 8.0' O.C. SEE DETAIL SHEET
  - (G) EXISTING ELECTRICAL TRANSFORMER.
  - (H) PEDESTRIAN ACCESSIBLE WALKWAY. SEE SHEET C8.0 FOR STRIPING DETAIL.
  - (I) CONCRETE PAVEMENT. SEE SHEET C8.0
  - (J) EXISTING UTILITY TO REMAIN
  - (K) TRAFFIC STRIPING - 4" SOLID WHITE STRIPE
  - (L) LIGHT POLE CONSTRUCTED ON CONCRETE PEDESTAL. SEE SHEET C8.0 FOR DETAIL.
  - (M) CURB INLET. SEE C4.0 - SITE PLAN FOR SIZE AND LOCATION
  - (N) AREA INLET. SEE C4.0 - SITE PLAN FOR SIZE AND LOCATION
  - (O) HEADWALL OUTLET. SEE C4.0 - SITE PLAN FOR SIZE AND LOCATION
  - (P) STORM DRAIN PIPE SAFETY END TREATMENT. SEE C4.0 - SITE PLAN FOR SIZE AND LOCATION.
  - (Q) CONCRETE MANHOLE.

**TRAFFIC CONTROL NOTE**

GUIDELINES SET FORTH IN PART "H" STANDARDS AND GUIDES FOR TRAFFIC CONTROLS FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT EDITION AS REVISED) SHALL BE OBSERVED.

**LEGEND**

ALL UTILITIES ARE EXISTING UNLESS NOTED OTHERWISE

- BOUNDARY LINE
- - - EASEMENT LINE
- X- FENCE LINE
- WATER LINE
- SANITARY SEWER LINE
- OVERHEAD ELECTRIC / TELEPHONE LINE
- UNDERGROUND ELECTRIC LINE
- GAS LINE
- FIRE LANE
- SURFACE DRAINAGE FLOWLINE
- STORM SEWER PIPE
- STORM SEWER MANHOLE
- STORM SEWER DROP INLET
- STORM SEWER HEADWALL / S.E.T.
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- WATER METER
- WATER VALVE
- FIRE DEPARTMENT CONNECTION
- FIRE HYDRANT
- IRRIGATION CONTROL VALVE
- POWER POLE
- LIGHT POLE
- GUY WIRE
- SIGN
- ELECTRIC TRANSFORMER PAD

**SITE INFORMATION**

OWNER / DEVELOPER:	HALLSVILLE I.S.D. HALLSVILLE, TEXAS
SITE ADDRESS:	2 BOBCAT LANE HALLSVILLE, TX 75660

- GENERAL NOTES**
- CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL UTILITIES WITHIN THE VICINITY OF CONSTRUCTION PRIOR TO COMMENCING CONSTRUCTION. CALL TEXAS ONE CALL SYSTEM AT 1-800-245-6445.
  - CONTRACTOR SHALL CONTACT THE CITY UTILITIES DEPARTMENT FOR UTILITY LINE LOCATES A MINIMUM OF TWO WORKING DAYS PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL CONTACT THE CITY ENGINEERING DEPARTMENT TO ARRANGE FOR AN INSPECTION A MINIMUM OF TWO WORKING DAYS PRIOR TO CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE EROSION CONTROL MEASURES DURING CONSTRUCTION IN ACCORDANCE WITH LOCAL AND CITY REQUIREMENTS.
  - CONTRACTOR SHALL KEEP DIRT, MUD, AND DEBRIS OFF PUBLIC STREETS AROUND PROJECT. CONTRACTOR SHALL IMMEDIATELY CLEAN DIRT, MUD, AND DEBRIS FROM PUBLIC STREETS AS SOON AS IT IS NOTICED BY THE CONTRACTOR OR NOTICED BY THE CITY.
  - CONTRACTOR SHALL RESTORE DISTURBED AREAS TO EXISTING CONTOURS UPON COMPLETION OF UTILITY CONSTRUCTION.
  - CONTRACTOR SHALL PROVIDE PERMANENT SITE STABILIZATION UPON COMPLETION OF CONSTRUCTION. PROVIDE SOLID BLOCK SOOT TO MATCH GRASS TYPE IN ESTABLISHED LAWNS. PROVIDE SEED AND FERTILIZER IN OTHER AREAS. DISTURBED AREAS SHALL BE WATERED UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.
  - CONSTRUCT PROPOSED WATER AND SEWER SERVICES AT LOCATIONS SHOWN ON PLANS.
  - THE MINIMUM BURY FOR PROPOSED WATER LINES AND SEWER LINES SHALL BE 4' UNLESS OTHERWISE NOTED.
  - ALL WATER LINES SHALL BE AWWA C-900 PVC UNLESS OTHERWISE NOTED ON PLANS. ALL WATER LINE BENDS AND FITTINGS SHALL BE DUCTILE IRON AND SUPPORTED WITH THRUST BLOCKING PER WATER DETAILS.
  - ALL SANITARY SEWER LINES SHALL BE SDR-26 PVC UNLESS OTHERWISE NOTED ON PLANS.
  - ALL DIMENSIONS AND STATION OFFSETS ARE TO BACK OF CURB, EDGE OF ROAD, CENTER OF PIPE, CENTER OF OBJECT, UNLESS OTHERWISE NOTED. ALL DIMENSIONS AND STATION OFFSETS TO CURB INLETS ARE TO THE CENTER OF THE INLET AT THE BACK OF CURB. ALL DIMENSIONS AND STATION OFFSETS TO JUNCTION BOXES ARE TO CENTER OF BOX.

**TOPOGRAPHIC SURVEY NOTE**

EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS PREPARED BY JOHNSON & PACE INCORPORATED. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW. THE ENGINEER'S SEAL ON THESE PLANS DOES NOT APPLY TO THE PROPERTY BOUNDARY INFORMATION SHOWN HEREON.

**REFERENCE MARKERS**

IF THE CONTRACTOR RELOCATES REFERENCE MARKERS WITH A NEW REFERENCE MARKER, IT SHALL BE LOCATED WITHIN A HORIZONTAL AND VERTICAL TOLERANCE OF 0.10'

CP #	SET "X" IN CONCRETE	CP #	SET "X" IN CONCRETE
CP #2	NORTHING - 6,883,368.99 EASTING - 3,178,621.16 ELEVATION - 368.07	CP #4	NORTHING - 6,883,977.56 EASTING - 3,178,028.44 ELEVATION - 373.89
CP #3	NORTHING - 6,883,949.50 EASTING - 3,178,496.59 ELEVATION - 367.58	CP #5	NORTHING - 6,883,404.11 EASTING - 3,179,086.16 ELEVATION - 370.79

**JOHNSON & PACE INCORPORATED**  
ENGINEERING - ARCHITECTURE - SURVEYING

1201 NW LOOP WEST, SUITE 101  
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WWW.JOHNSONANDPACE.COM

**HALLSVILLE I.S.D.  
BOBCAT STADIUM  
PARKING LOT EXPANSION  
HALLSVILLE, TEXAS**

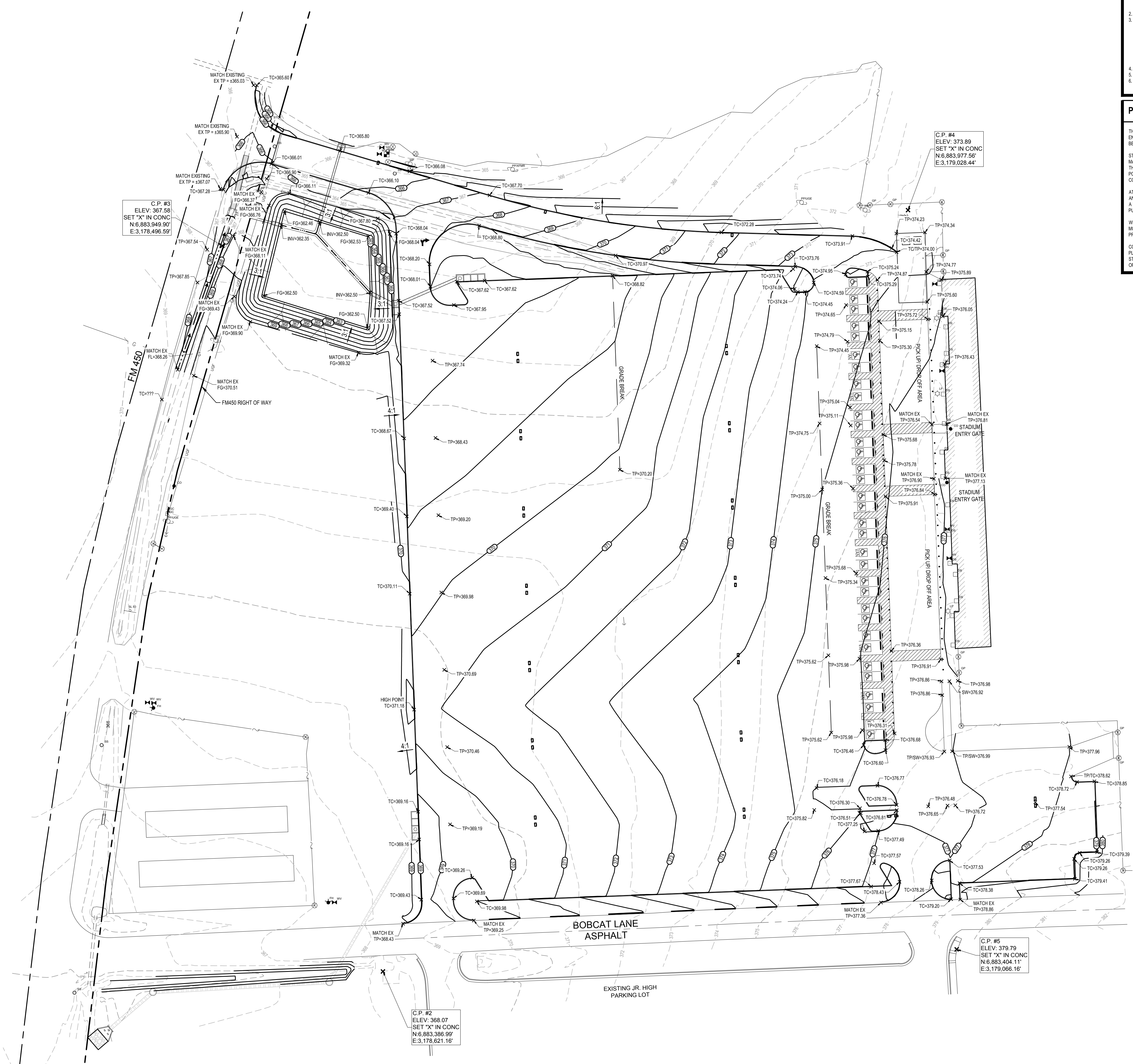
**REVISIONS**

NO.	DATE	DESCRIPTION

**SITE PLAN**  
ISSUED FOR BIDDING

DATE: 07/22/2024	SCALE: 1"=40'	REVISION: B
DESIGNED BY: JMC	DRAWN BY: BDB	C4.0
CHECKED BY: JMC	APPROVED BY: JMC	

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**GENERAL GRADING NOTES**

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER SUITABLE METHODS OF CONTROL. THE CONTRACTOR SHALL COMPLY WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
2. ALL CUT OR FILL SLOPES SHALL BE 4:1 MAXIMUM UNLESS OTHERWISE NOTED.
3. ALL SLOPES AND AREAS DISTURBED BY CONSTRUCTION SHALL BE GRADED SMOOTH AND 4 INCHES OF TOPSOIL APPLIED, IF ADEQUATE TOPSOIL IS NOT AVAILABLE ON SITE. THE CONTRACTOR SHALL PROVIDE TOPSOIL, APPROVED BY THE OWNER, AS NEEDED. THE AREAS SHALL THEN BE SOILED, WATERED AND MAINTAINED UNTIL HARDY GRASS GROWTH IS ESTABLISHED IN ALL AREAS. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES, 3:1 OR STEEPER. ANY AREAS DISTURBED FOR ANY REASON PRIOR TO FINAL ACCEPTANCE OF THE JOB SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
4. EXISTING GRADE CONTOUR INTERVAL SHOWN AT 1 FOOT.
5. PROPOSED GRADE CONTOUR INTERVAL SHOWN AT 1 FOOT.
6. CONTRACTOR SHALL ADJUST GRADES ADJACENT TO EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

**PAVEMENT SUBGRADE PREPARATION**

THE FOLLOWING NOTE IS BASED ON THE GEOTECHNICAL REPORT PREPARED BY EITL ENGINEERS & CONSULTANTS, INC. IN TYLER TEXAS DATED, APRIL 2024. IF A DISCREPANCY BETWEEN THE REPORT AND THESE NOTES EXIST, THE REPORT IS TO BE FOLLOWED.

STRIP AND REMOVE ALL TOPSOIL, CRUSHED GRAVEL, PAVEMENT, AND ANY DELUGEIOUS MATERIALS FROM THE SUBGRADE TO A MINIMUM DEPTH OF 6". WHERE TREES ARE REMOVED, THE ENTIRE ROOT ZONE SHOULD BE CUT OUT AND REPLACED WITH COMPACTED FILL. POSITIVE SURFACE DRAINAGE SHOULD BE MAINTAINED DURING ALL PHASES OF CONSTRUCTION.

AT A MINIMUM, CUT TO THE PROPOSED SUBGRADE ELEVATION AS REQUIRED. AFTER CUTTING, AND BEFORE PLACING FILL, THE EXPOSED SUBGRADE SHOULD BE PROOF ROLLED. THE USE OF A FULLY LOADED DUMP TRUCK IS RECOMMENDED. AREAS THAT EXPERIENCE RUTTING OR PUMPING SHOULD BE REPAIRED PER THE GEOTECHNICAL ENGINEER'S RECOMMENDATION.

WHERE FILL IS REQUIRED, SCARIFY THE EXPOSED SUBGRADE TO A DEPTH OF 6". ADJUST THE MOISTURE CONTENT TO 2% OPTIMUM, AND COMPACT TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY. PLACE COMMON FILL TO PROPOSED SUBGRADE AS DESCRIBED BELOW.

COMMON FILL MATERIAL MAY CONSIST OF ANY NATIVE SOIL, GENERALLY FREE OF ORGANICS, PLACED IN MAXIMUM LOOSE LIFTS. COMPACT FILL TO A MINIMUM DENSITY OF 95% STANDARD PROCTOR AT A MOISTURE CONTENT OF 2% OPTIMUM. AVOID THE USE OF SANDY OR SILTY SOILS IN THE TOP 2" OF THE FINISHED SUBGRADE (SM, SC-SM, SW, SP, ML).

GRAPHIC SCALE  
1 inch = 40 ft

**LEGEND**

TC	TOP OF CURB
TP	TOP OF PAVEMENT
TW	TOP OF WALL
TI	TOP OF INLET
TG	TOP OF GATE
SW	SIDEWALK
FG	FINISHED GRADE
TC=340.38	PROPOSED SPOT ELEVATION
---	EXISTING CONTOUR
---	PROPOSED CONTOUR

**REFERENCE MARKERS**

IF THE CONTRACTOR RELOCATES REFERENCE MARKERS WITH A NEW REFERENCE MARKER, IT SHALL BE LOCATED WITHIN A HORIZONTAL AND VERTICAL TOLERANCE OF 0.10'

CP #2	SET 'X' IN CONCRETE NORTHING - 6,883,366.99 EASTING - 3,178,521.16 ELEVATION - 368.07	CP #4	SET 'X' IN CONCRETE NORTHING - 6,883,377.56 EASTING - 3,179,028.44 ELEVATION - 373.89
CP #3	SET 'X' IN CONCRETE NORTHING - 6,883,349.30 EASTING - 3,179,066.19 ELEVATION - 367.56	CP #5	SET 'X' IN CONCRETE NORTHING - 6,883,404.11 EASTING - 3,179,066.19 ELEVATION - 379.79

**\*\*CAUTION\*\* - NOTICE TO CONTRACTOR**

THE CONTRACTOR IS PUT ON NOTICE THAT THERE MAY BE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, SUCH AS WATER, SEWER, GAS, PIPELINE, TELEPHONE AND ELECTRIC. SOME MAY BE ABANDONED WHILE MANY ARE ACTIVE. EXISTING UTILITIES SHOWN ON THE PLANS REPRESENT A DILIGENT EFFORT TO SHOW THEIR APPROXIMATE LOCATION.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS. DAMAGES SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

THE CONTRACTOR MUST CONTACT THE APPROPRIATE UTILITY COMPANY AT LEAST 72 HOURS BEFORE ANY EXCAVATION TO REQUEST FIELD LOCATION OF UTILITIES.

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES, AND WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.

**\*\*TEXAS ONE CALL SYSTEM\*\***

AS REQUIRED BY THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4543) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

**INSPECTIONS/CERTIFICATIONS NOTE**

ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY LOCAL CODES AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO SUBSTANTIAL PROJECT COMPLETION.

**PERMITS NOTE**

CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS REQUIRED BY FEDERAL, STATE, OR LOCAL CODES AND/OR UTILITY SERVICE COMPANIES PRIOR TO START OF CONSTRUCTION.

**TRAFFIC CONTROL NOTE**

GUIDELINES SET FORTH IN PART 14 STANDARDS AND GUIDES FOR TRAFFIC CONTROL FOR STREET AND HIGHWAY CONSTRUCTION, MAINTENANCE, UTILITY, AND INCIDENT MANAGEMENT OPERATIONS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MOST RECENT EDITION AS REVISED) SHALL BE OBSERVED.

**TOPOGRAPHIC SURVEY NOTE**

EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS PREPARED BY JOHNSON & PACE INCORPORATED. IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW. THE ENGINEER'S SEAL ON THESE PLANS DOES NOT APPLY TO THE PROPERTY BOUNDARY INFORMATION SHOWN HEREON.

**SEEDING AND MULCHING NOTE**

CONTRACTOR SHALL SEED AND MULCH ALL DISTURBED AREAS WITHIN THE SUBJECT BOUNDARY NOT PAVED OR OTHERWISE COVERED. PER THE SPECIFICATIONS, ALL AREAS DISTURBED OUTSIDE THE PROPERTY BOUNDARY SHALL ALSO BE SEEDS AND MULCHED AND COVER SHALL BE ESTABLISHED TO PREVENT EROSION. CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY WATERING UNTIL A HEALTHY STAND OF GRASS IS ESTABLISHED.

**EMERGENCY ACCESS NOTE**

HARD SURFACE FOR EMERGENCY ACCESS SHALL BE CONSTRUCTED ALONG 'FIRE LANE' ROUTE PRIOR TO ERECTING BUILDING STRUCTURE. FIRE LANES WILL REMAIN CLEAR DURING CONSTRUCTION.

**JOHNSON & PACE INCORPORATED**  
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www.johnsonandpace.com

**HALLSVILLE I.S.D.  
BOBCAT STADIUM  
PARKING LOT EXPANSION  
HALLSVILLE, TEXAS**

**REVISIONS**

NO.	DATE	BY	DESCRIPTION

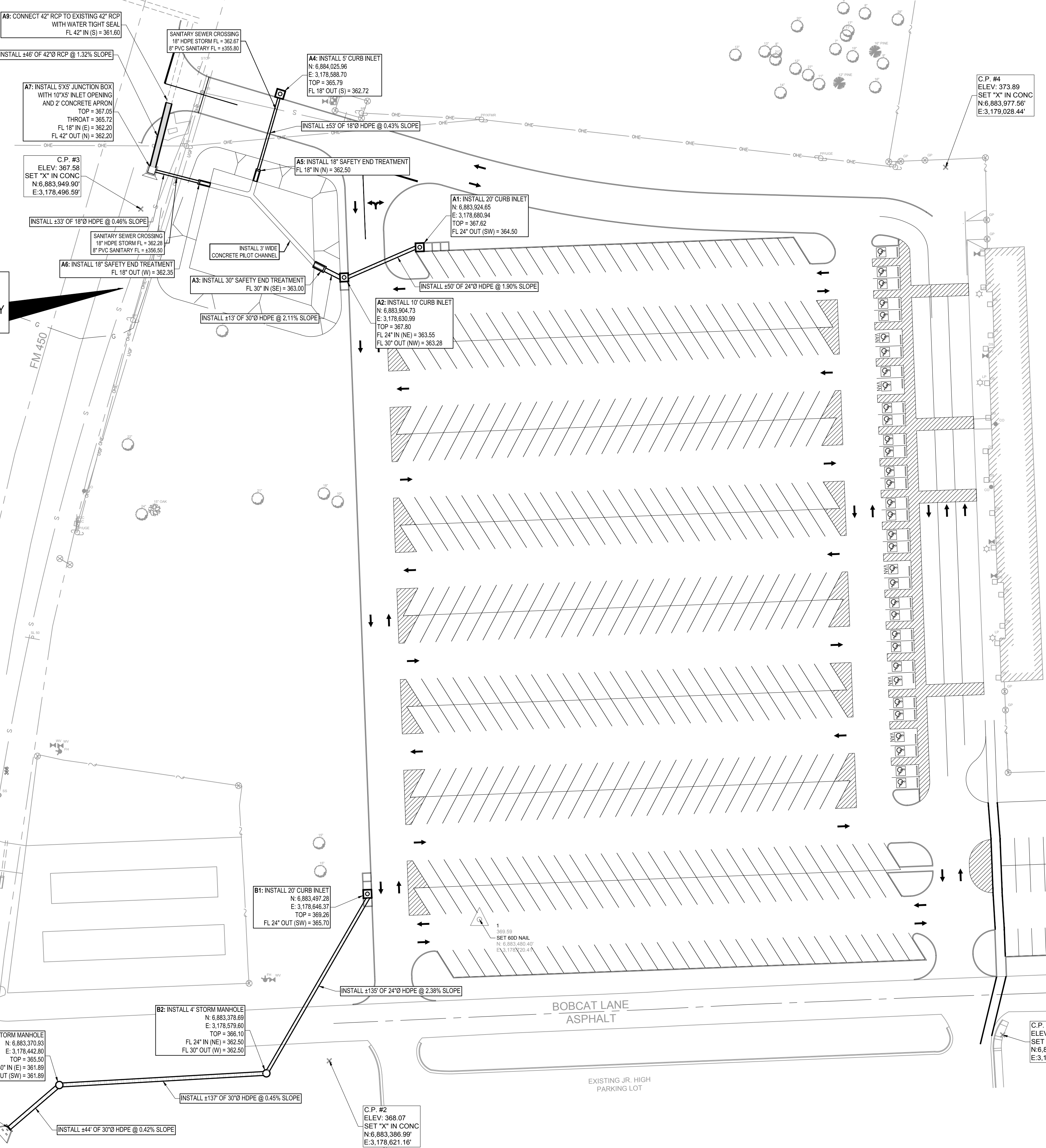
**GRADING PLAN**

ISSUED FOR BIDDING

DATE: 07/22/2024	SCALE: 1"=40'	REVISION NO: B
DESIGNER: JMC	APPROVED BY: JWH	
DRAWN BY: BDB		
PROJECT NO: C5.0		

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**ATTENTION CONTRACTOR**  
 BE AWARE THERE ARE MANY UNDERGROUND  
 AND OVERHEAD UTILITIES IN THE RIGHT OF WAY  
 USE CAUTION WHEN DIGGING IN THIS AREA



**\*\*TEXAS ONE CALL SYSTEM\*\***

AS REQUIRED BY THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT, TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-244-4444) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT TEXAS ONE CALL SYSTEM.

**\*\*CAUTION\*\* - NOTICE TO CONTRACTOR**

THE CONTRACTOR IS PUT ON NOTICE THAT THERE MAY BE NUMEROUS UNDERGROUND UTILITIES IN THE LINE OF WORK, SUCH AS WATER, SEWER, GAS, PIPELINE, TELEPHONE AND ELECTRIC. SOME MAY BE ABANDONED WHILE MANY ARE ACTIVE. EXISTING UTILITIES SHOWN ON THE PLANS REPRESENT A DILIGENT EFFORT TO SHOW THEIR APPROXIMATE LOCATION.

THE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION OPERATIONS. DAMAGES SHALL BE REPAIRED IMMEDIATELY AT CONTRACTOR'S EXPENSE.

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**STORM SEWER PIPE NOTES**

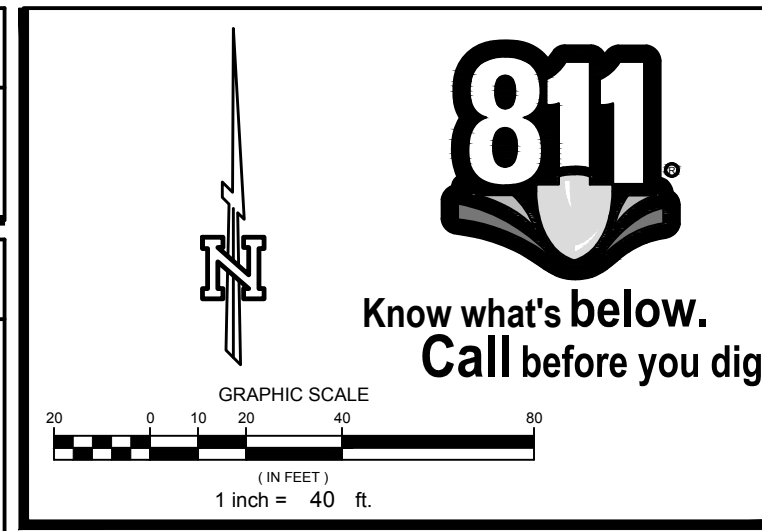
- ALL PIPES SHALL BE JOINED WITH WATER TIGHT JOINTS
- ALL HDPE PIPES SHALL BE DUAL WALL SMOOTH INTERIOR PIPE, ADS N-12 OR ENGINEER APPROVED EQUAL

**GENERAL STORM SEWER NOTES**

- PRECAST STRUCTURES MAY BE USED AT CONTRACTOR'S OPTION.
- EXISTING DRAINAGE STRUCTURES TO REMAIN ON SITE SHALL BE INSPECTED AND REPAIRED AS NEEDED. EXISTING PIPES SHALL BE CLEANED TO REMOVE ALL SEDIMENT AND DEBRIS PRIOR TO PROJECT COMPLETION.
- ALL STORM PIPE ENTERING STRUCTURES SHALL BE GROUTED WITH NON-SHRINK GROUT TO ASSURE CONNECTION AT STRUCTURE IS WATER TIGHT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE A TRAFFIC RATED RING & COVER. MANHOLE COVERS IN UNPAVED AREAS SHALL BE 2" ABOVE FINISH GRADE UNLESS OTHERWISE NOTED. COVERS SHALL BE LABELED "STORM SEWER".
- ALL STORM STRUCTURES SHALL HAVE A SMOOTH UNIFORM POURED MORTAR FROM INVERT IN TO INVERT OUT.
- CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT SIZE, NUMBER AND LOCATION OF BUILDING ROOF DRAINS.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF EXISTING STORM SEWER STRUCTURES, PIPE, AND ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY ENGINEER OF RECORD IF CONFLICT IS DISCOVERED.
- CONTRACTOR SHALL UTILIZE PREFABRICATED RING, OR RAINING PIPE TO ACCOUNT FOR DEFLECTION IN STORM SEWER PIPE WHERE SHOWN HEREON.
- INLET BOX DIMENSIONS ARE GIVEN TO INSIDE WALL OF BOX.
- CONTRACTOR SHALL ADHERE TO OSHA RULES AND REGULATIONS REGARDING TRENCH SAFETY. ANY COSTS ASSOCIATED WITH TRENCH SAFETY ARE CONSIDERED SUBSIDIARY TO STORM SEWER PIPE INSTALLATION. NO EXTRA PAY FOR TRENCH SAFETY.

**TOPOGRAPHIC SURVEY NOTE**

EXISTING TOPOGRAPHIC INFORMATION SHOWN ON THESE PLANS WAS PREPARED BY JOHNSON & PACE INCORPORATED. IF CONTRACTOR DOES NOT AGREE WITH EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW. THE ENGINEER'S SEAL ON THESE PLANS DOES NOT APPLY TO THE PROPERTY BOUNDARY INFORMATION SHOWN HEREON.



**LEGEND**

ALL UTILITIES ARE EXISTING UNLESS NOTED OTHERWISE

	FIRE DEPARTMENT CONNECTION
	WATER METER
	WATER VALVE
	FIRE HYDRANT
	SEWER CLEANOUT
	SEWER MANHOLE
	POWER POLE
	UTILITY POLE WITH LIGHT
	GUY WIRE
	ELECTRIC TRANSFORMER PAD
	HEADWALL
	NUMBER OF PARKING SPACES PER ROW
	STABILIZED CONSTRUCTION EXIT
	WATER LINE
	SANITARY SEWER
	CURB AND GUTTER
	STORM SEWER
	PROPOSED FLOW PATH
	OVERHEAD ELECTRIC LINE
	GAS LINE
	UNDERGROUND ELECTRIC LINE
	FIRE LANE
	SIGN
	STORM SEWER - HDPE PIPE
	STORM SEWER - RCP PIPE

**STRUCTURE TABLE**

NAME:	DESCRIPTION:	TOP:	NORTHING:	EASTING:	PIPES IN:	PIPES OUT:
A1	INSTALL 20' CURB INLET	367.62	N: 6,883,924.65	E: 3,178,680.94		P-A1, 24" INV OUT = 364.50
A2	INSTALL 10' CURB INLET	367.80	N: 6,883,904.73	E: 3,178,630.99	P-A1, 24" INV IN = 363.55	P-A2, 30" INV OUT = 363.28
A3	INSTALL 30' SAFETY END TREATMENT	366.08	N: 6,883,910.29	E: 3,178,617.36	P-A2, 30" INV IN = 363.00	
A4	INSTALL 5' CURB INLET	365.79	N: 6,884,025.96	E: 3,178,588.70		P-A4, 18" INV OUT = 362.72
A5	INSTALL 18' SAFETY END TREATMENT	364.56	N: 6,883,975.11	E: 3,178,574.03	P-A4, 18" INV IN = 362.50	
A6	INSTALL 18' SAFETY END TREATMENT	364.41	N: 6,883,967.63	E: 3,178,535.58		P-A6, 18" INV OUT = 362.35
A7	INSTALL 5'X5' JUNCTION BOX WITH 10'X5' INLET OPENING AND 2' CONCRETE APRON	367.05	N: 6,883,975.69	E: 3,178,503.98	P-A6, 18" INV IN = 362.20	P-A7, 42" REINFORCED CONCRETE PIPE INV OUT = 362.20
B1	INSTALL 20' CURB INLET	369.26	N: 6,883,497.28	E: 3,178,646.37		P-B1, 24" INV OUT = 365.70
B2	INSTALL 4' STORM MANHOLE	366.10	N: 6,883,378.69	E: 3,178,579.80	P-B1, 24" INV IN = 362.50	P-B2, 30" INV OUT = 362.50
B3	INSTALL 4' STORM MANHOLE	365.50	N: 6,883,370.93	E: 3,178,442.80	P-B2, 30" INV IN = 361.89	P-B3, 30" INV OUT = 361.89
B4	INSTALL 30' WINGED HEADWALL	364.78	N: 6,883,342.43	E: 3,178,409.57	P-B3, 30" INV IN = 361.70	

**PIPE TABLE**

NAME:	SIZE:	MATERIAL:	LENGTH:	SLOPE:
P-A1	24"	HDPE	49.65'	1.90%
P-A2	30"	HDPE	13.15'	2.11%
P-A4	18"	HDPE	52.93'	0.43%
P-A6	18"	HDPE	32.61'	0.46%
P-A7	42"	RCP	45.60'	1.32%
P-B1	24"	HDPE	134.64'	2.38%
P-B2	30"	HDPE	137.03'	0.45%
P-B3	30"	HDPE	43.77'	0.42%

**JOHNSON & PACE INCORPORATED**  
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 HOUSTON, TEXAS 77028  
 (832) 353-6667 FAX (832) 353-8800  
 website: www.johnsonpace.com  
 TXPE-04-01

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND UNDER THE AUTHORITY OF JOE W. HART, III, P.E. TX LICENSE # 36962 ON THE DATE SHOWN. IT IS NOT TO BE USED FOR THE PURPOSE OF CONSTRUCTION.

**HALLSVILLE I.S.D.**  
**BOBCAT STADIUM**  
**PARKING LOT EXPANSION**  
**HALLSVILLE, TEXAS**

**REVISIONS**

NO.	DATE	BY	DESCRIPTION

**STORM SEWER PLAN**

DATE: 2025-01-22  
 DRAWN BY: JMC  
 CHECKED BY: JWH  
 APPROVED BY: JWH  
 SCALE: 1"=40'  
 SHEET NO.: C5.0



Title Block: 2024-05-20 10:00:00 AM; User: jpa; Project: Hallsville I.S.D. Bobcat Stadium Expansion; Drawing: Drainage Areas - Proposed Condition; Sheet: C7.0  
 Job No.: 2024-05-20 10:00:00 AM; User: jpa; Project: Hallsville I.S.D. Bobcat Stadium Expansion; Drawing: Drainage Areas - Proposed Condition; Sheet: C7.0  
 Job No.: 2024-05-20 10:00:00 AM; User: jpa; Project: Hallsville I.S.D. Bobcat Stadium Expansion; Drawing: Drainage Areas - Proposed Condition; Sheet: C7.0



AREA DESIGNATION	TOTAL AREA (acres)	TIME OF CONCENTRATION (min)	COMPOSITE RUNOFF COEFFICIENT (C)	RAINFALL INTENSITY (in/hr)			PEAK RUNOFF (cfs)		
				5-Year	25-Year	100-Year	5-Year	25-Year	100-Year
E-NORTH	4.09	19.25	0.60	5.84	7.85	9.84	14.32	19.25	23.65

Intensity values interpolated from the NOAA Atlas 14 Precipitation Frequency Data Server (PFDS)

Overland Flow	
Manning's n-value	0.016 Asphalt
Length	275 ft
P	4.16 in
Slope	0.02 ft/ft
T <sub>overland</sub>	3.22 min
Shallow Concentrated Flow	
Length	270 ft
Slope	0.02 ft/ft
Avg Velocity (PAVED)	3.000 ft/sec
Avg Velocity (UNPAVED)	2.281 ft/sec
T <sub>shallow conc</sub>	1.97 min
Channelized Flow	
Length	167 ft
Avg Velocity (ft/sec)	5.0 ft/sec
T <sub>channelized</sub>	0.56 min
<b>Minimum T<sub>c</sub></b>	<b>10 min</b>
<b>T<sub>c</sub></b>	<b>10.0 min</b>

AREA DESIGNATION	TOTAL AREA (acres)	TIME OF CONCENTRATION (min)	COMPOSITE RUNOFF COEFFICIENT (C)	RAINFALL INTENSITY (in/hr)			PEAK RUNOFF (cfs)		
				5-Year	25-Year	100-Year	5-Year	25-Year	100-Year
E-SOUTH	5.93	28.40	0.61	5.14	7.45	9.14	13.13	18.69	23.87

Intensity values interpolated from the NOAA Atlas 14 Precipitation Frequency Data Server (PFDS)

Overland Flow	
Manning's n-value	0.016 Asphalt
Length	300 ft
P	4.16 in
Slope	0.05 ft/ft
T <sub>overland</sub>	2.39 min
Shallow Concentrated Flow	
Length	645 ft
Slope	0.02 ft/ft
Avg Velocity (PAVED)	3.000 ft/sec
Avg Velocity (UNPAVED)	2.281 ft/sec
T <sub>shallow conc</sub>	4.71 min
Channelized Flow	
Length	163 ft
Avg Velocity (ft/sec)	4.8 ft/sec
T <sub>channelized</sub>	0.57 min
<b>Minimum T<sub>c</sub></b>	<b>10 min</b>
<b>T<sub>c</sub></b>	<b>10.0 min</b>

811  
Know what's below.  
Call before you dig.

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**DRAINAGE AREA LEGEND**

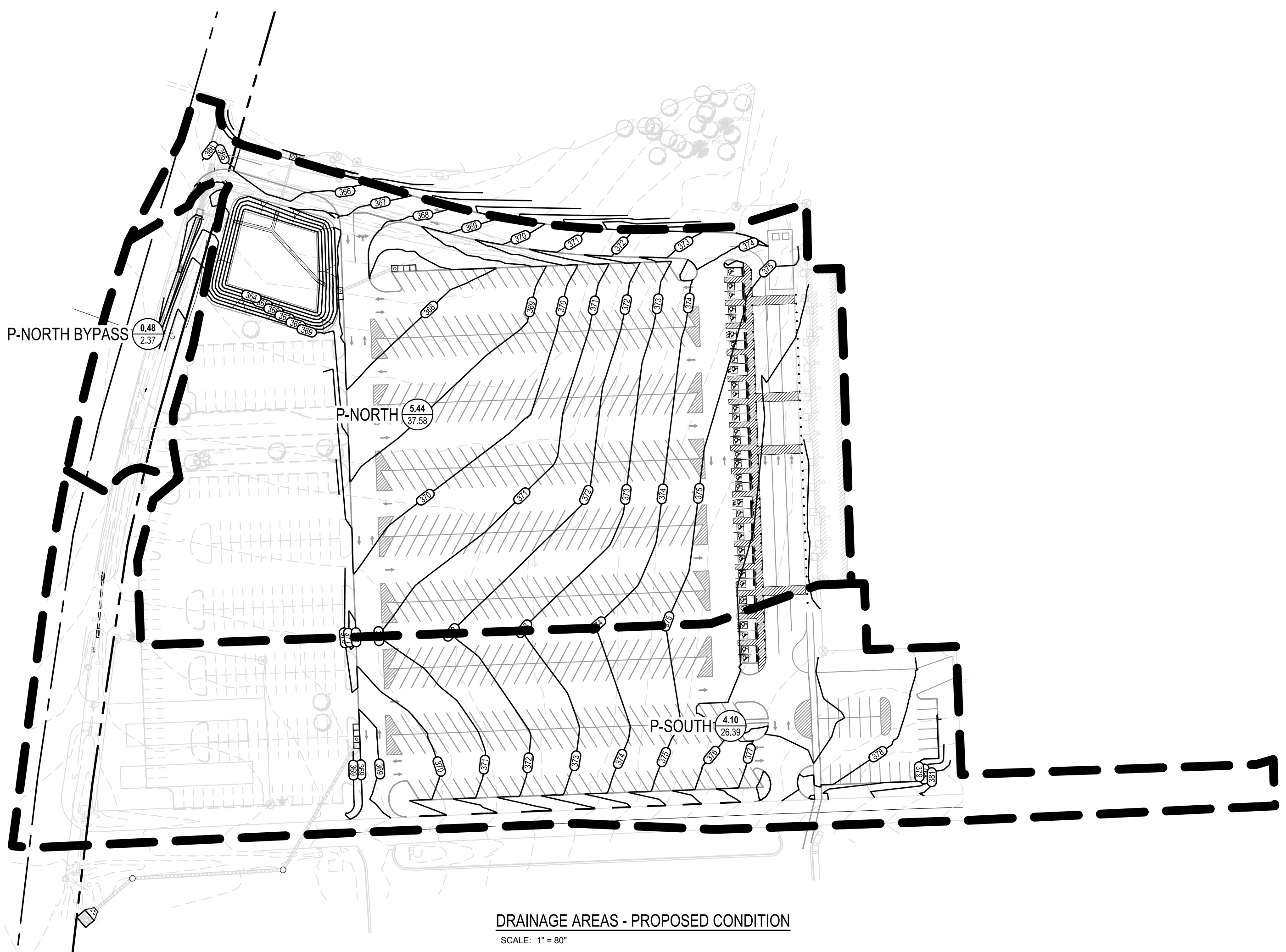
- EXISTING CONTOURS
- PROPOSED CONTOURS
- TIME OF CONCENTRATION HYDRAULIC LENGTH
- SUB-BASIN AREA BOUNDARY
- PROPOSED STORM SEWER
- SURFACE DRAINAGE FLOW DIRECTION
- "E" PREFIX - INDICATES EXISTING CONDITION
- "P" PREFIX - INDICATES PROPOSED CONDITION
- AREA (ACRES)
- NAME - E-N
- 25-YEAR PEAK FLOW
- SUB-BASIN IDENTIFICATION LABEL

HALLSVILLE I.S.D.  
BOBCAT STADIUM  
PARKING LOT EXPANSION  
HALLSVILLE, TEXAS

NO.	DATE	BY	REVISIONS

DRAINAGE AREA PLAN  
ISSUED FOR BIDDING

DATE: 07/22/2024  
 PROJECT: BOBCAT STADIUM PARKING LOT EXPANSION  
 SHEET NO.: C7.0  
 DRAWING NO.: B



AREA DESIGNATION	TOTAL AREA (acres)	TIME OF CONCENTRATION (min)	COMPOSITE RUNOFF COEFFICIENT (C)	RAINFALL INTENSITY (in/hr)			PEAK RUNOFF (cfs)		
				5-Year	25-Year	100-Year	5-Year	25-Year	100-Year
P-NORTH	5.44	10	0.63	5.84	7.85	9.84	27.96	37.98	48.15
P-NORTH BYPASS	0.48	10	0.63	5.84	7.85	9.84	1.77	2.37	2.92

Intensity values interpolated from the NOAA Atlas 14 Precipitation Frequency Data Server (PFDS)

STORM EVENT	E-NORTH (cfs)	P-NORTH BYPASS (cfs)	ALLOWABLE DISCHARGE (cfs)
5-YEAR	14.32	1.77	12.56
25-YEAR	19.25	2.37	16.88
100-YEAR	23.65	2.92	20.73

AREA DESIGNATION	TOTAL AREA (acres)	TIME OF CONCENTRATION (min)	COMPOSITE RUNOFF COEFFICIENT (C)	RAINFALL INTENSITY (in/hr)			PEAK RUNOFF (cfs)		
				5-Year	25-Year	100-Year	5-Year	25-Year	100-Year
P-SOUTH	4.10	10	0.62	5.14	7.45	9.14	19.83	26.39	32.41

Intensity values interpolated from the NOAA Atlas 14 Precipitation Frequency Data Server (PFDS)

STORM EVENT	EXISTING PEAK FLOW (cfs)	PROPOSED PEAK FLOW (ft)
5-YEAR	21.13	19.63
25-YEAR	28.40	26.39
100-YEAR	34.87	32.41

**Pond Report**

Hydroflow Hydrographs Extension for Autodesk® Civil 3D® by Autodesk, Inc. v2024  
Monday, 09 / 9 / 2024

**Pond No. 1 - DET-NORTH POND**  
Pond Data  
Contours - User-defined contour areas. Average end area method used for volume calculation. Beginning Elevation = 362.35 ft

**Stage / Storage Table**

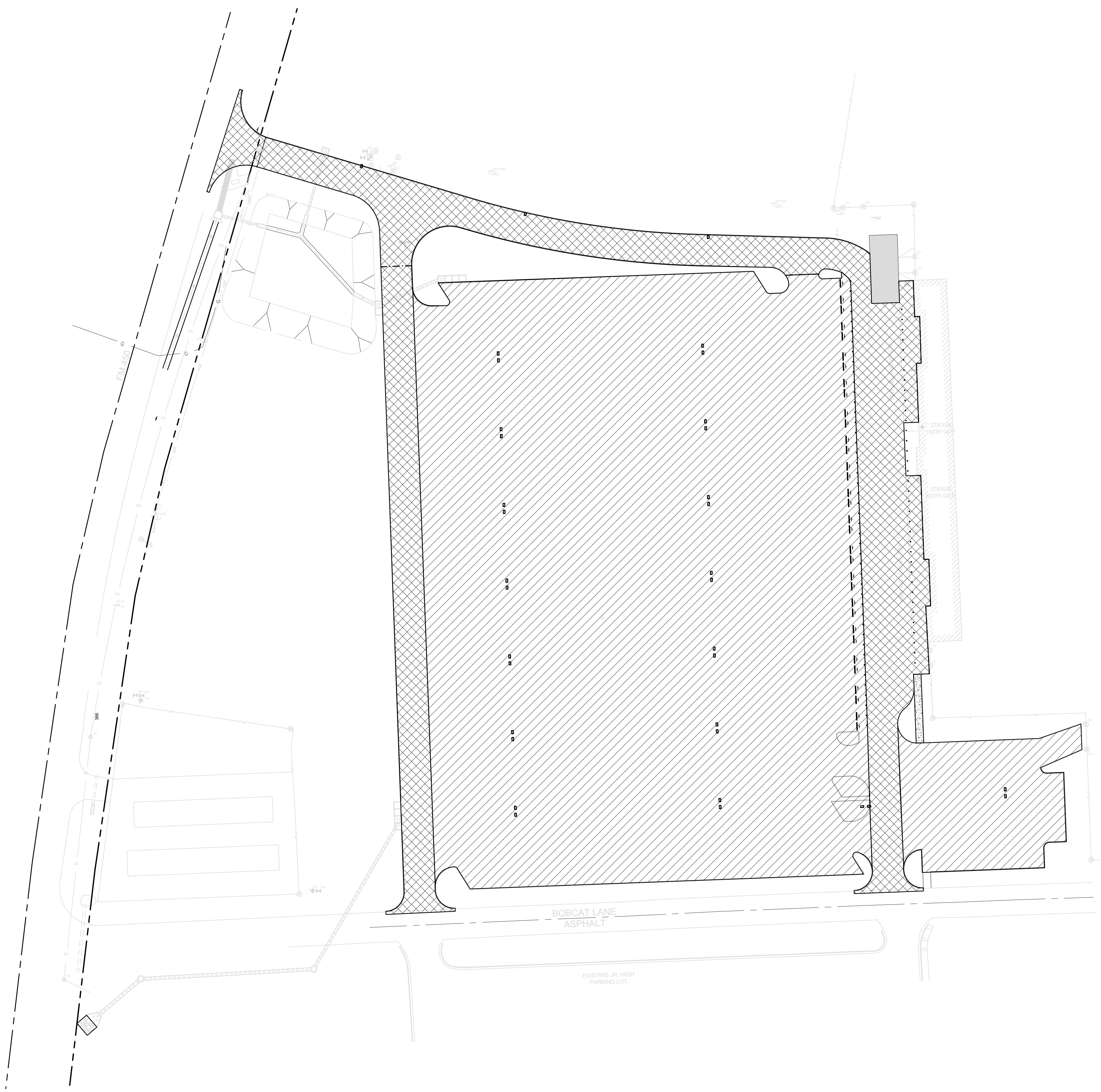
Stage (ft)	Elevation (ft)	Contour area (sqft)	Incr. Storage (cuft)	Total storage (cuft)
0.00	362.35	00	0	0
0.15	362.50	2,094	157	157
0.65	363.00	5,690	1,946	2,103
1.65	364.00	6,654	6,172	8,275
2.65	365.00	7,679	7,166	15,442
3.65	366.00	8,766	8,222	23,664
3.75	366.10	8,879	892	24,546
4.65	367.00	9,363	8,208	32,755

Culvert / Orifice Structures					Weir Structures				
	[A]	[B]	[C]	[Pr/Rsr]		[A]	[B]	[C]	[D]
Rise (in)	= 18.00	0.00	0.00	0.00	Crest Len (ft)	= 20.00	0.00	0.00	0.00
Span (in)	= 18.00	0.00	0.00	0.00	Crest El. (ft)	= 366.10	0.00	0.00	0.00
No. Barrels	= 1	0	0	0	Weir Coeff.	= 2.60	3.33	3.33	3.33
Invert El. (ft)	= 362.35	0.00	0.00	0.00	Weir Type	= Broad	---	---	---
Length (ft)	= 33.00	0.00	0.00	0.00	Multi-Stage	= No	No	No	No
Slope (%)	= 0.50	0.00	0.00	n/a					
N-Value	= 0.13	0.13	0.13	n/a					
Orifice Coeff.	= 0.60	0.60	0.60	0.60	Exfil. (in/hr)	= 0.00 (by Contour)			
Multi-Stage	= n/a	No	No	No	TW Elev. (ft)	= 0.00			

Note: Culvert/Orifice outflows are analyzed under inlet (ic) and outlet (oc) control. Weir risers checked for orifice conditions (ic) and submergence (s).

Stage ft	Storage cuft	Elevation ft	Civ A cfs	Civ B cfs	Civ C cfs	Pr/Rsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	362.35	0.00	---	---	---	0.00	---	---	---	---	---	0.000
0.15	157	362.50	0.12 ic	---	---	---	0.00	---	---	---	---	---	0.122
0.65	2,103	363.00	1.62 oc	---	---	---	0.00	---	---	---	---	---	1.622
1.65	8,275	364.00	5.50 oc	---	---	---	0.00	---	---	---	---	---	5.497
2.65	15,442	365.00	11.23 oc	---	---	---	0.00	---	---	---	---	---	11.23
3.65	23,664	366.00	14.49 ic	---	---	---	0.00	---	---	---	---	---	14.49
3.75	24,546	366.10	14.74 ic	---	---	---	0.00	---	---	---	---	---	14.74
4.65	32,755	367.00	16.80 ic	---	---	---	44.40	---	---	---	---	---	61.20

STORM EVENT	PEAK FLOW INTO POND (cfs)	PEAK W.S.E.L. (ft)	PEAK FLOW DISCHARGE (cfs)	ALLOWABLE DISCHARGE (cfs)
5-YEAR	27.96	364.96	11.08	12.66
25-YEAR	37.98	365.63	13.53	16.88
100-YEAR	48.15	366.23	17.49	20.73



**811**  
 Know what's below.  
 Call before you dig.

**PAVEMENT HATCH LEGEND**

	CONCRETE SIDEWALK SEE SHEET C8.1 FOR DETAILS
	LIGHT DUTY CONCRETE PAVEMENT SEE SHEET C8.1 FOR DETAILS
	MEDIUM DUTY CONCRETE PAVEMENT SEE SHEET C8.1 FOR DETAILS
	HEAVY DUTY CONCRETE PAVEMENT SEE SHEET C8.1 FOR DETAILS

**PAVEMENT NOTES**

THE CONCRETE MIX SHOULD CONTAIN 4.5% - 6.0% ENTRAINED AIR FOR DURABILITY. THE MAXIMUM AGGREGATE SIZE SHOULD BE NO GREATER THAN 1/4 THE THICKNESS OF THE SLAB. ALLOW A MINIMUM OF 7 DAYS (IN WARM WEATHER LONGER IN COLD WEATHER) CURING TIME BEFORE PERMITTING LIGHT TRAFFIC ON THE PAVEMENT.

MINIMUM PAVEMENT THICKNESS OF 5.0 INCHES SHALL BE MAINTAINED AT ALL TIMES. ALL EDGES OF PAVEMENT SHOULD BE THICKENED TO 7.0 INCHES, TRANSITIONING BACK TO NORMAL THICKNESS OVER 4.0 FEET.

PAVEMENT THICKNESS TABLE		
TRAFFIC	THICKNESS (IN.)	MAX JOINT SPACING (FT.)
LIGHT DUTY	5.0	12.5
MEDIUM DUTY	5.5	12.5
HEAVY DUTY	7.0	15

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 website: www.johnsonpace.com  
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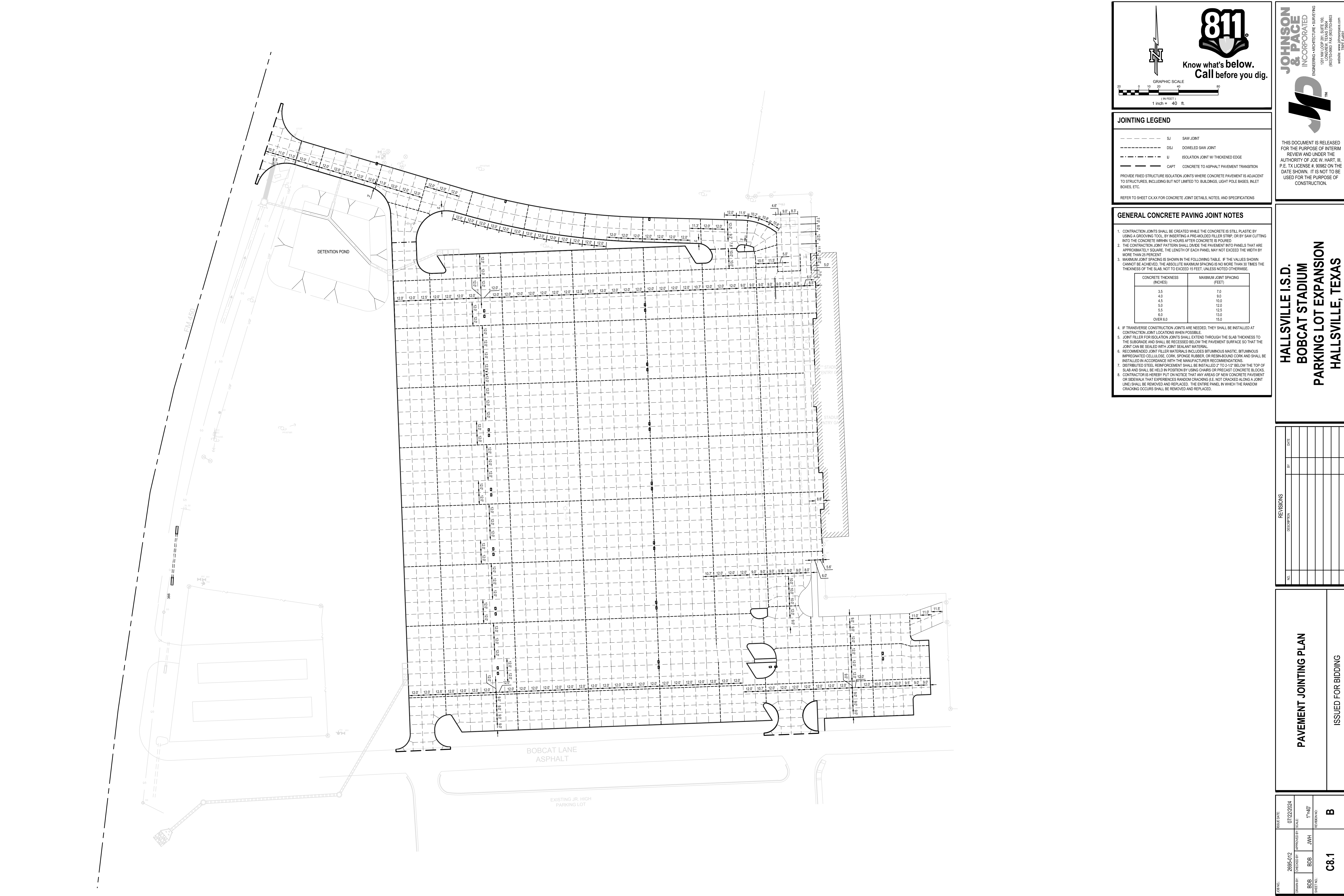
**HALLSVILLE I.S.D.  
 BOBCAT STADIUM  
 PARKING LOT EXPANSION  
 HALLSVILLE, TEXAS**

**REVISIONS**

NO.	DESCRIPTION	BY	DATE

**PAVING PLAN**  
 ISSUED FOR BIDDING

JOB NO. <b>285-012</b>	REVISION DATE <b>07/22/2024</b>
COUNTY: <b>BOB</b>	PROJECT APPROVED BY: <b>JWH</b>
SHEET NO.: <b>C8.0</b>	REVISION NO.: <b>B</b>

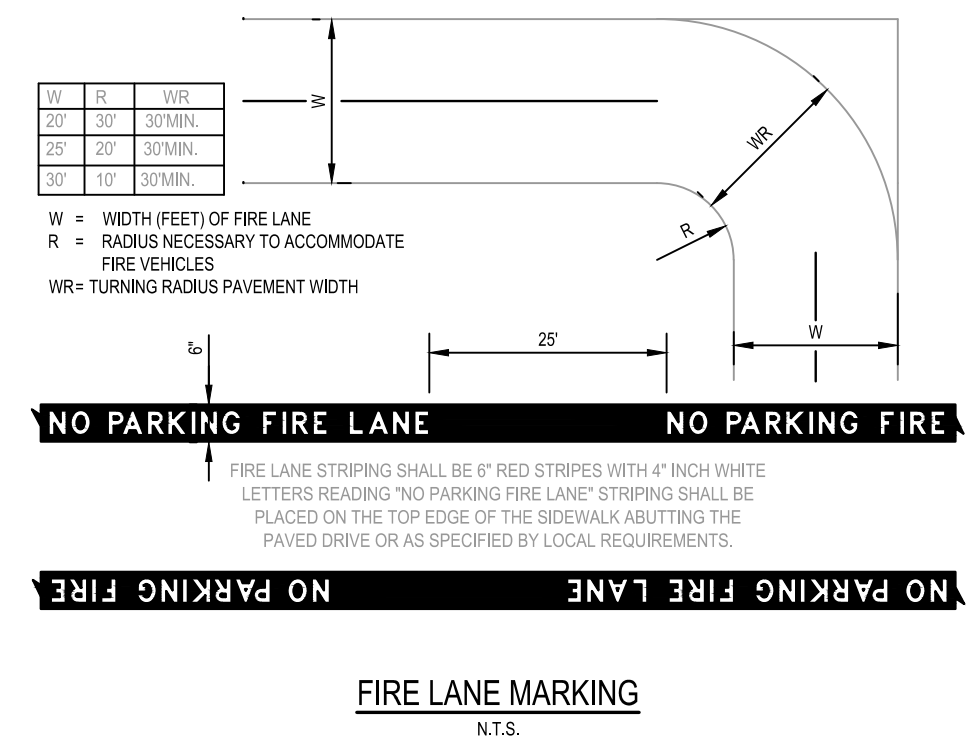
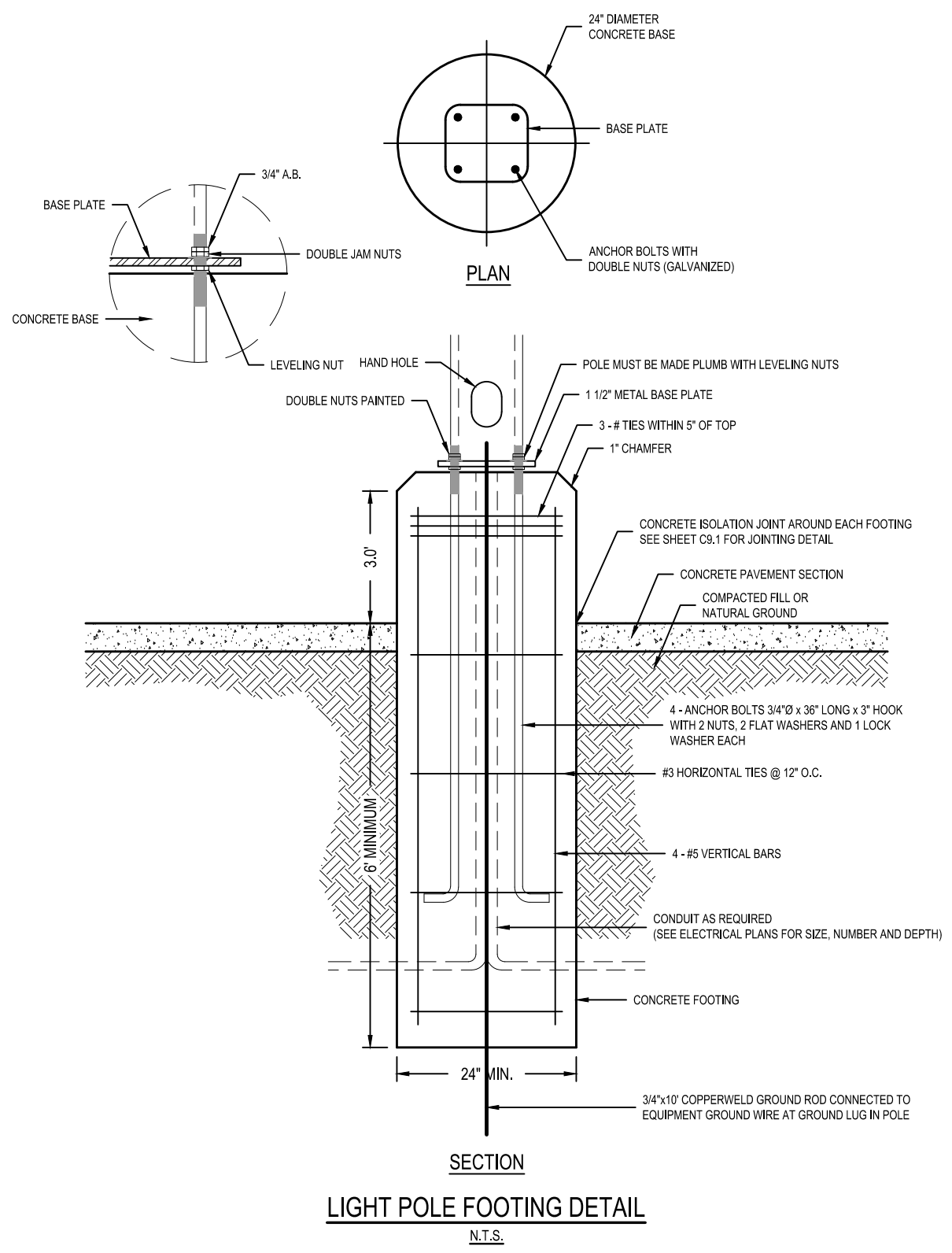
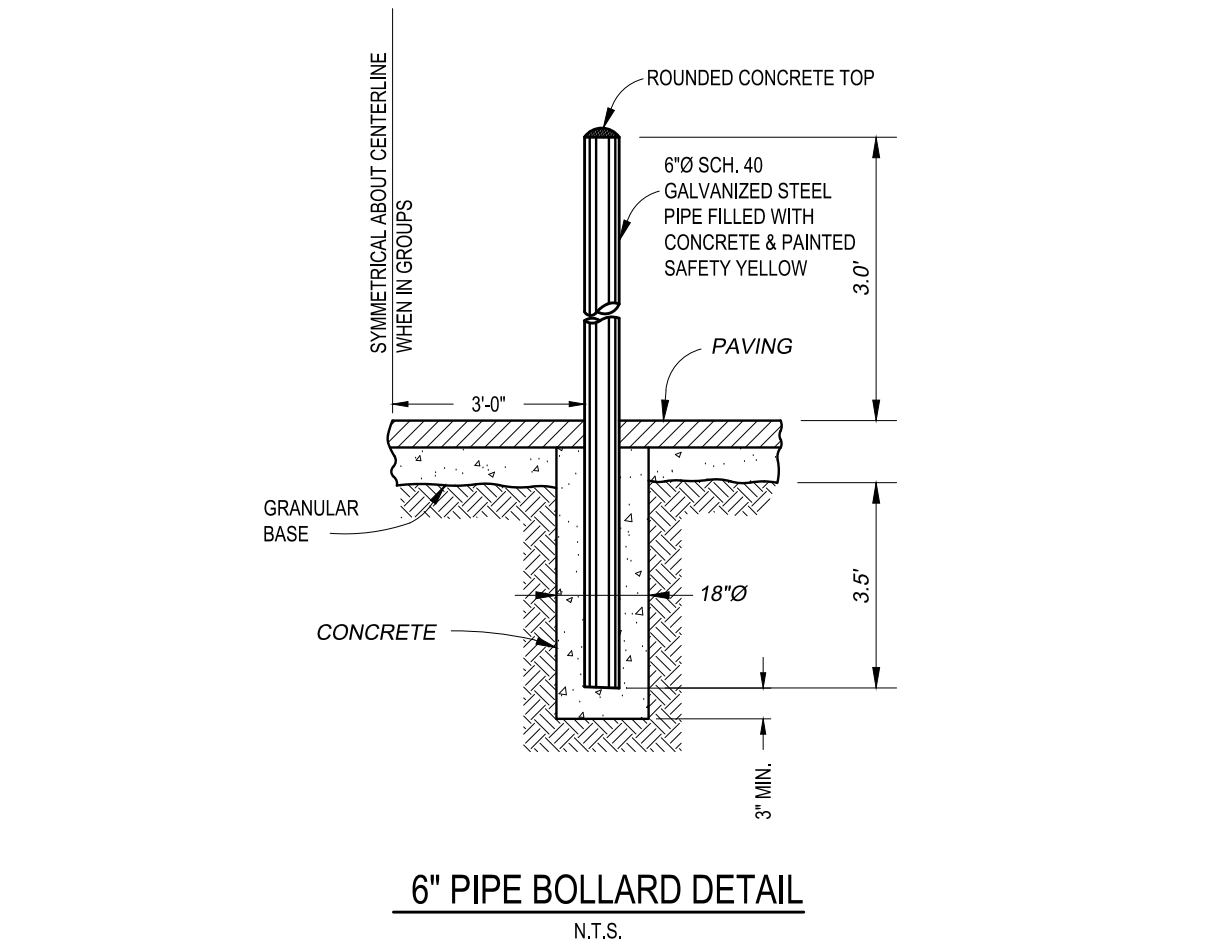
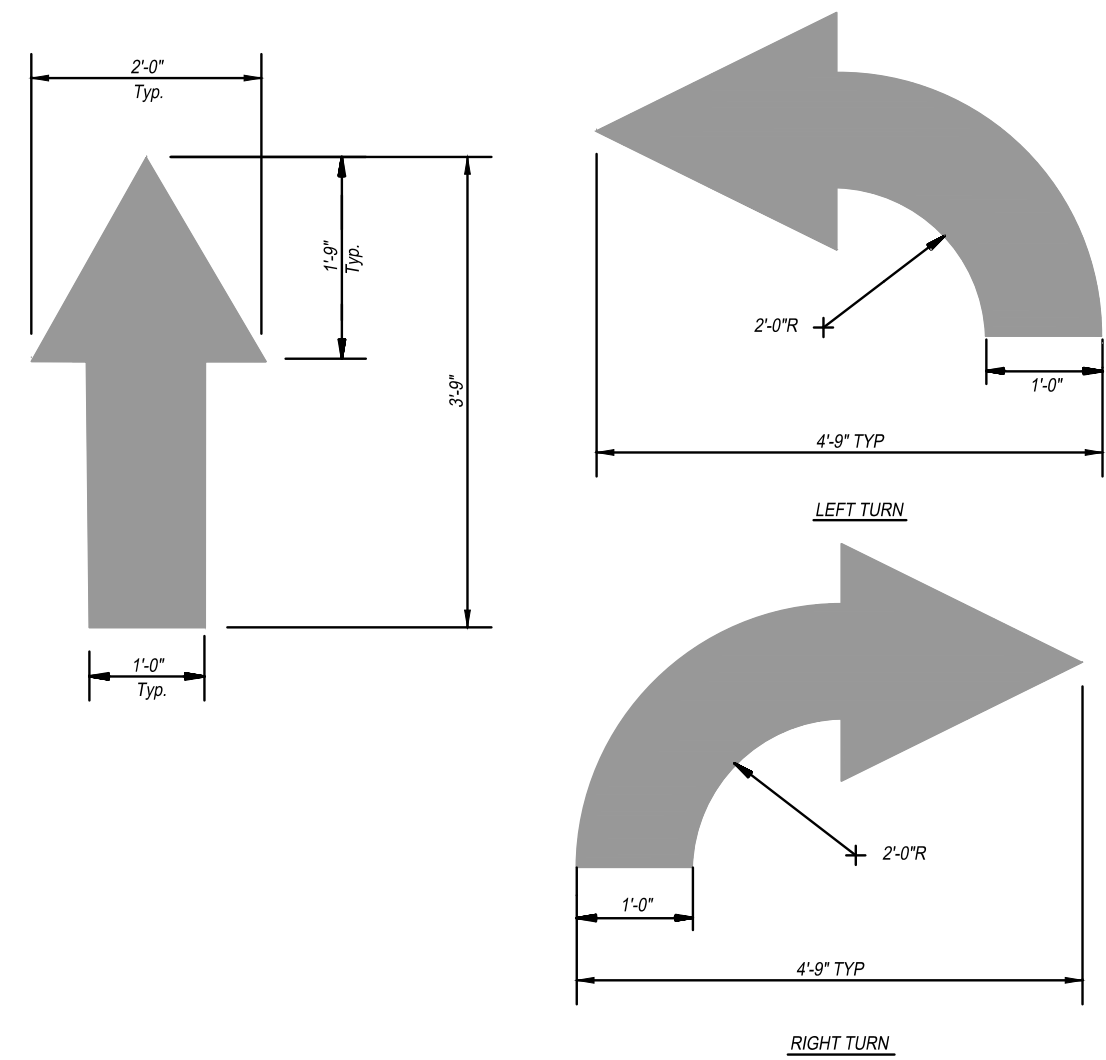
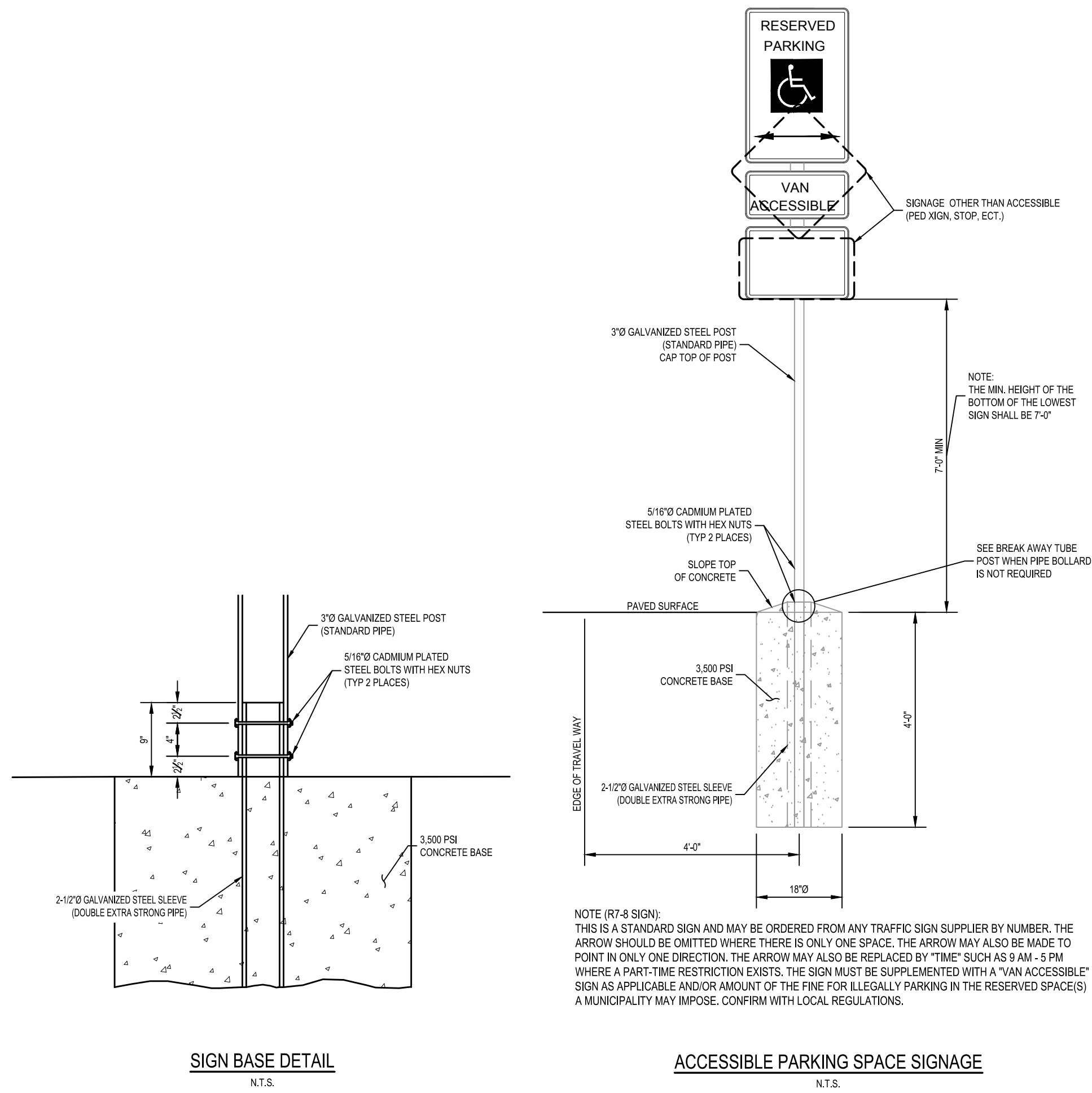


REVISIONS

NO.	DESCRIPTION	BY	DATE

**PAVEMENT JOINTING PLAN**  
 ISSUED FOR BIDDING

JOB NO. 285-012	REVISION DATE 07/22/2024
COUNTY BOB	PROJECT APPROVED BY JWH
SHEET NO. C8.1	REVISION NO. B



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**HALLSVILLE I.S.D.  
BOBCAT STADIUM  
PARKING LOT EXPANSION  
HALLSVILLE, TEXAS**

NO.	REVISIONS	DATE

**SITE DETAIL SHEET**  
ISSUED FOR BIDDING

DATE: 07/22/2024	PROJECT: BOBCAT STADIUM	SCALE: N/A	REVISION NO.:
NO. 2855-012	DESIGNER: JWC	DRAWN BY: BDB	CHECKED BY: JWH
SHEET NO. C9.0			REVISION NO.:



PIPE DIAM.	H-25 SURFACE LIVE LOADING CONDITION	HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"	48"
54" - 60"	24"	60"

\*VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

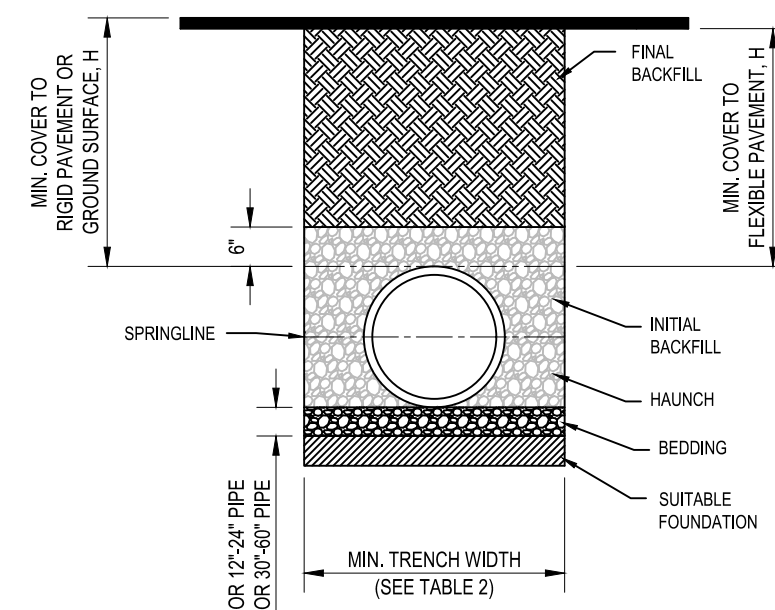
PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

**NOTES FOR TYPICAL HDPE STORM DRAIN:**

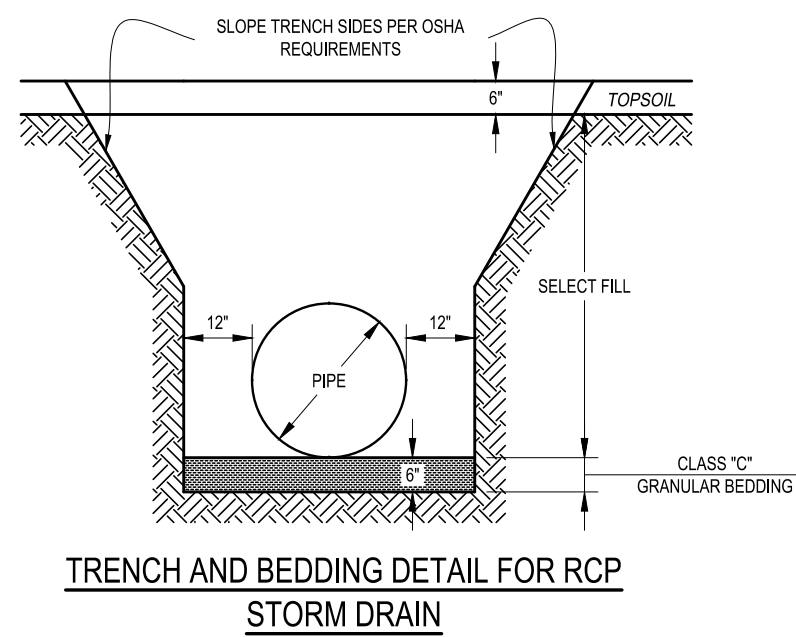
- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS," LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 4"-24" DIAMETER PIPE, 6" FOR 30"-60" DIAMETER PIPE.
- INITIAL BACKFILL AND HAUNCH:** SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE MATERIAL SHALL BE PLACED UNIFORMLY IN 6" LIFTS AND COMPACTED. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER:** MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

**BACKFILL MATERIAL CLASSIFICATION:**

- CLASS I - ANGULAR CRUSHED STONE OR ROCK, DENSE OR OPEN GRADED WITH LITTLE OR NO FINES (1/4 INCH TO 1 1/2 INCHES IN SIZE.)
- CLASS II - (GW, GP, SW, SP, GW-GC, SP-SM) CLEAN, COARSE GRADED GRAINED MATERIALS, SUCH AS GRAVEL, COARSE SANDS AND GRAVEL/SAND MIXTURES (1 1/2 INCHES MAXIMUM SIZE.)
- CLASS III - (GM, GC, SM, SC) COARSE GRAINED MATERIALS WITH FINES INCLUDING SILTY OR CLAYEY GRAVELS OR SANDS. GRAVEL OR SAND MUST COMPRISE MORE THAN 50 PERCENT OF CLASS III MATERIALS (1 1/2 INCHES MAXIMUM SIZE.)
- CLASS IV - (ML, CL, MH, CH) FINE GRAINED MATERIALS, SUCH AS FINE SAND AND SOILS CONTAINING 50 PERCENT OR MORE CLAY OR SILT. SOILS CLASSIFIED AS CLASS IVa (ML OR CL) HAVE MEDIUM TO LOW PLASTICITY AND ARE NOT RECOMMENDED IN THE EMBEDMENT ZONE. SOILS CLASSIFIED AS CLASS IVb (MH OR CH) HAVE HIGH PLASTICITY AND ARE NOT RECOMMENDED FOR EMBEDMENT MATERIALS.
- CLASS V - (OL, OH, PT) THESE MATERIALS INCLUDE ORGANIC SILTS AND CLAYS, PEAT AND OTHER ORGANIC MATERIALS. THEY ARE NOT RECOMMENDED FOR EMBEDMENT MATERIALS.
- NOTE: EMBEDMENT MATERIALS SHOULD BE PLACED AND COMPACTED AT OPTIMUM MOISTURE CONTENT.

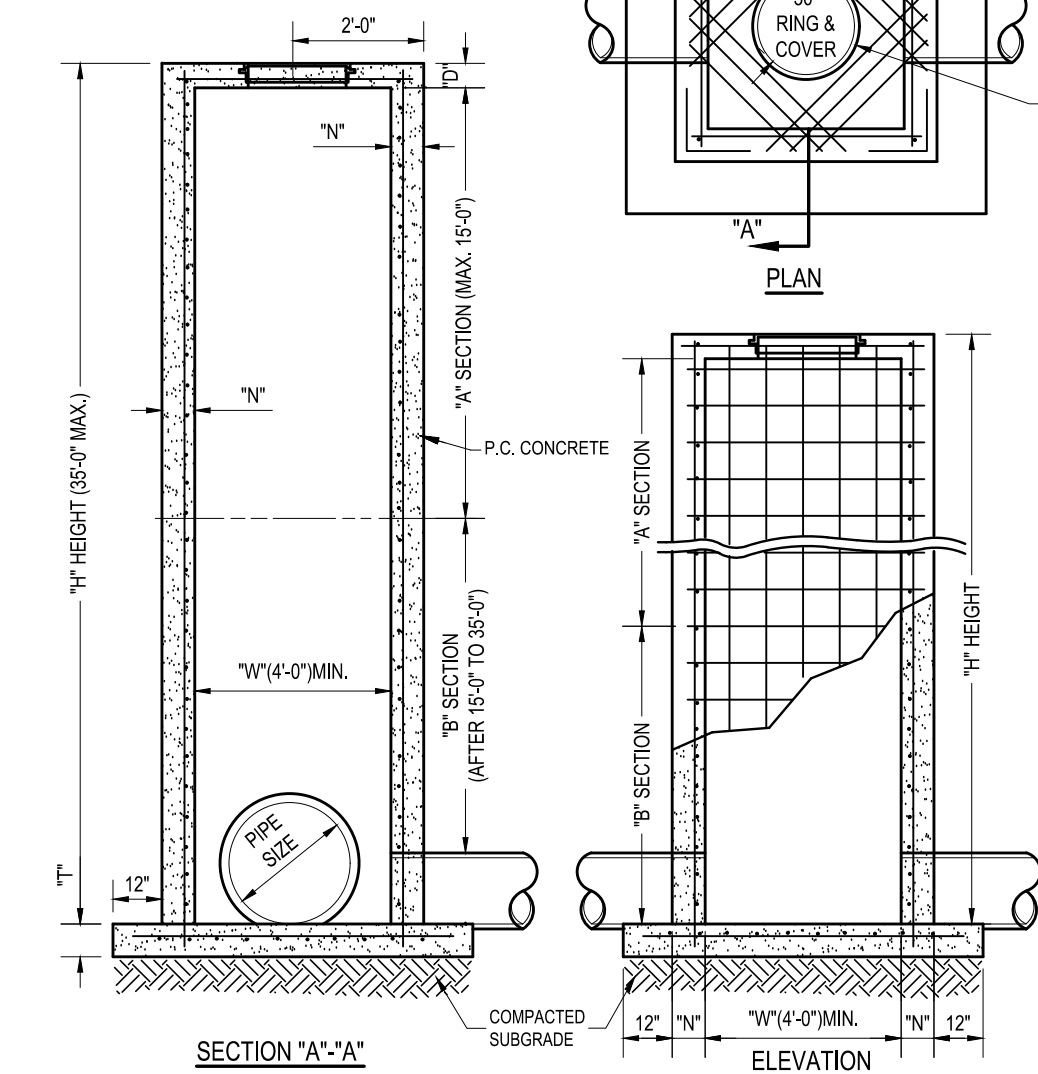


**TRENCH AND BEDDING DETAIL FOR TYPICAL HDPE STORM DRAIN**  
N.T.S.



**TRENCH AND BEDDING DETAIL FOR RCP STORM DRAIN**  
N.T.S.

- GENERAL NOTES:**
- ALL EXPOSED CORNERS TO HAVE 3/4" CHAMFER.
  - ALL #4 & #6 REINFORCING BARS TO HAVE 1/2" COVER, LARGER SIZES TO HAVE 2" COVER.
  - SEE GRADING AND DRAINAGE PLAN FOR PIPE SIZES, LOCATIONS, AND FLOW LINES.
  - PIPES SHALL CONNECT TO THE ENDS OR SIDES OF THE INLET. CONNECTION SHALL NOT BE MADE AT CORNERS OF BOX.
  - ALL REINFORCING BARS TO BE GRADE #6.



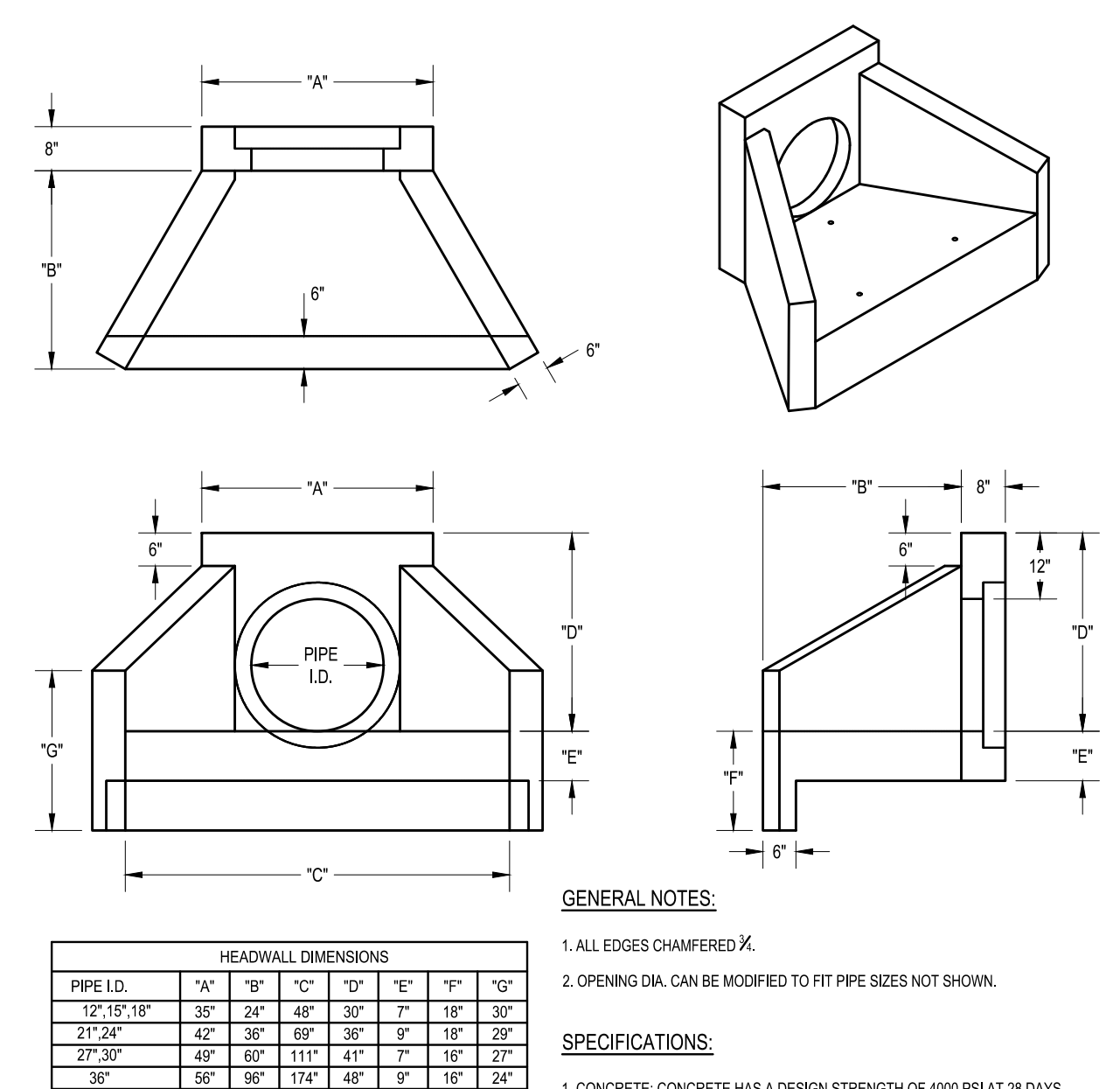
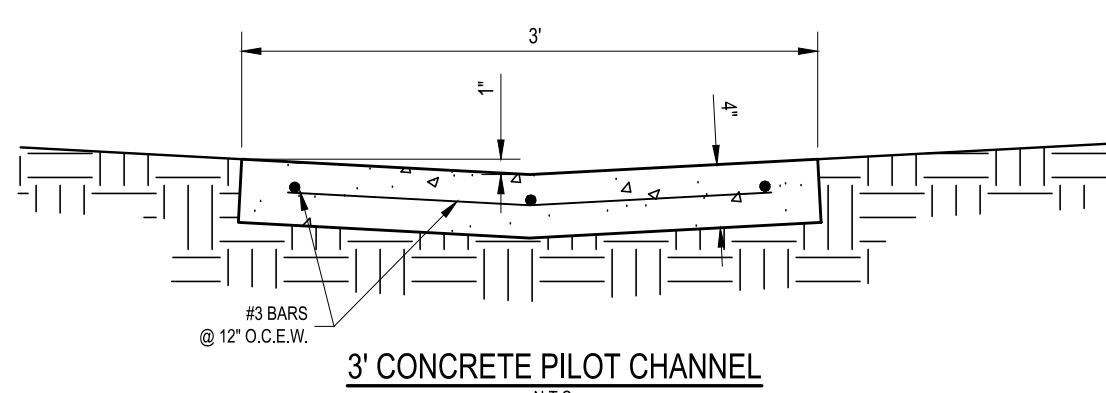
**JUNCTION BOX**  
N.T.S.

SECTION	W	VER.
"A"	#6 @ 8" E.W.	#6 @ 10"
"B"	#6 @ 8" E.W.	#6 @ 10"

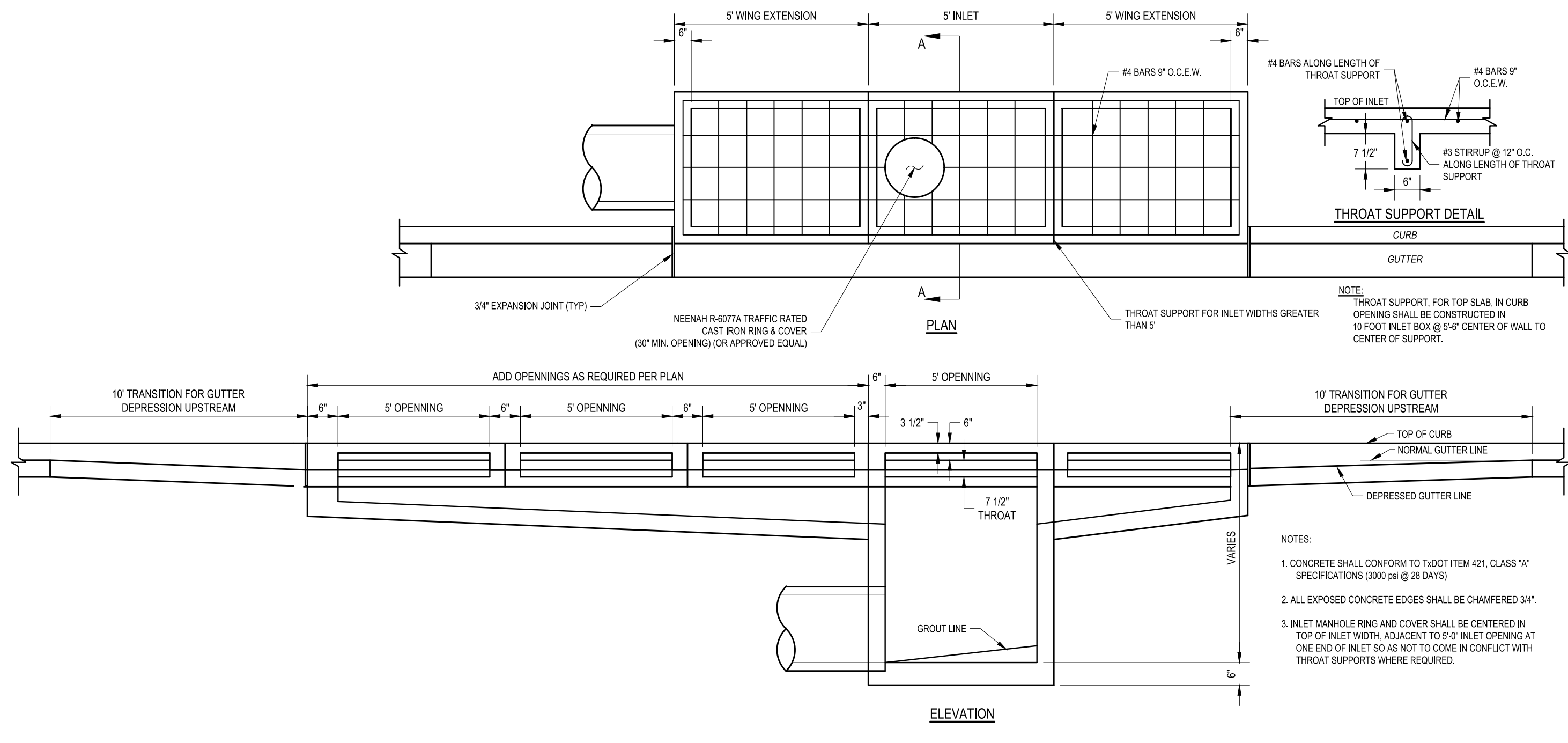
PIPE SIZE	SKEW OF CROSS DRAIN	"W"
24"	30"	4'-0"
24"	45"	4'-0"
30"	45"	4'-0"
30"	60"	5'-3"
42"	60"	5'-3"
42"	75"	6'-6"
48"	75"	6'-6"
60"	75"	7'-10"
60"	90"	8'-2"
60"	105"	9'-2"
72"	105"	11'-0"
84"	105"	12'-6"
84"	120"	12'-6"
84"	135"	14'-0"

SECTION	W	VER.
"A"	#6 @ 8" E.W.	#6 @ 10"
"B"	#6 @ 8" E.W.	#6 @ 10"

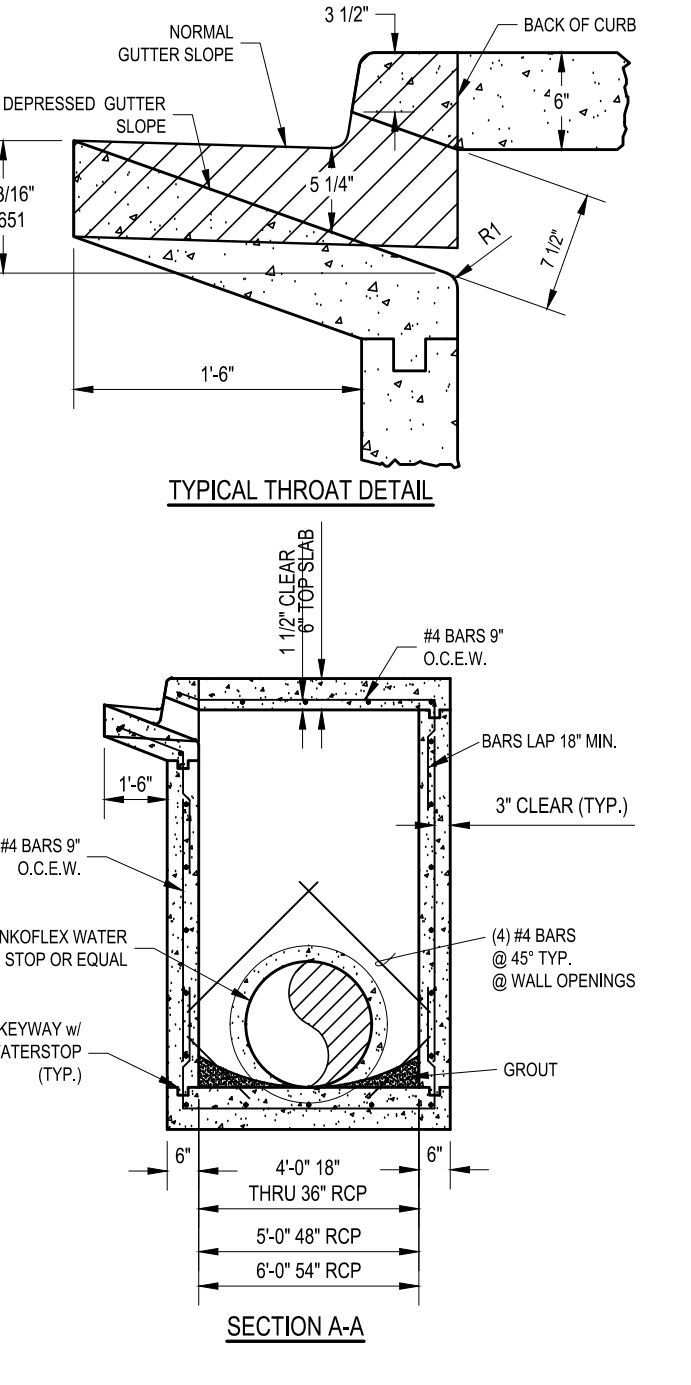
DIMENSIONS	STEEL	SPECIAL PATTERN
W1 = 7' OR LESS	#4 @ 8" E.W.	DIAGONAL @ COVER
W2 = 7' OR LESS	#4 @ 8" E.W.	DIAGONAL @ COVER
W1 = 7' OR GREATER	#4 @ 8" E.W.	DIAGONAL @ COVER
W1 = 7' OR GREATER	#4 @ 8" E.W.	DIAGONAL @ COVER



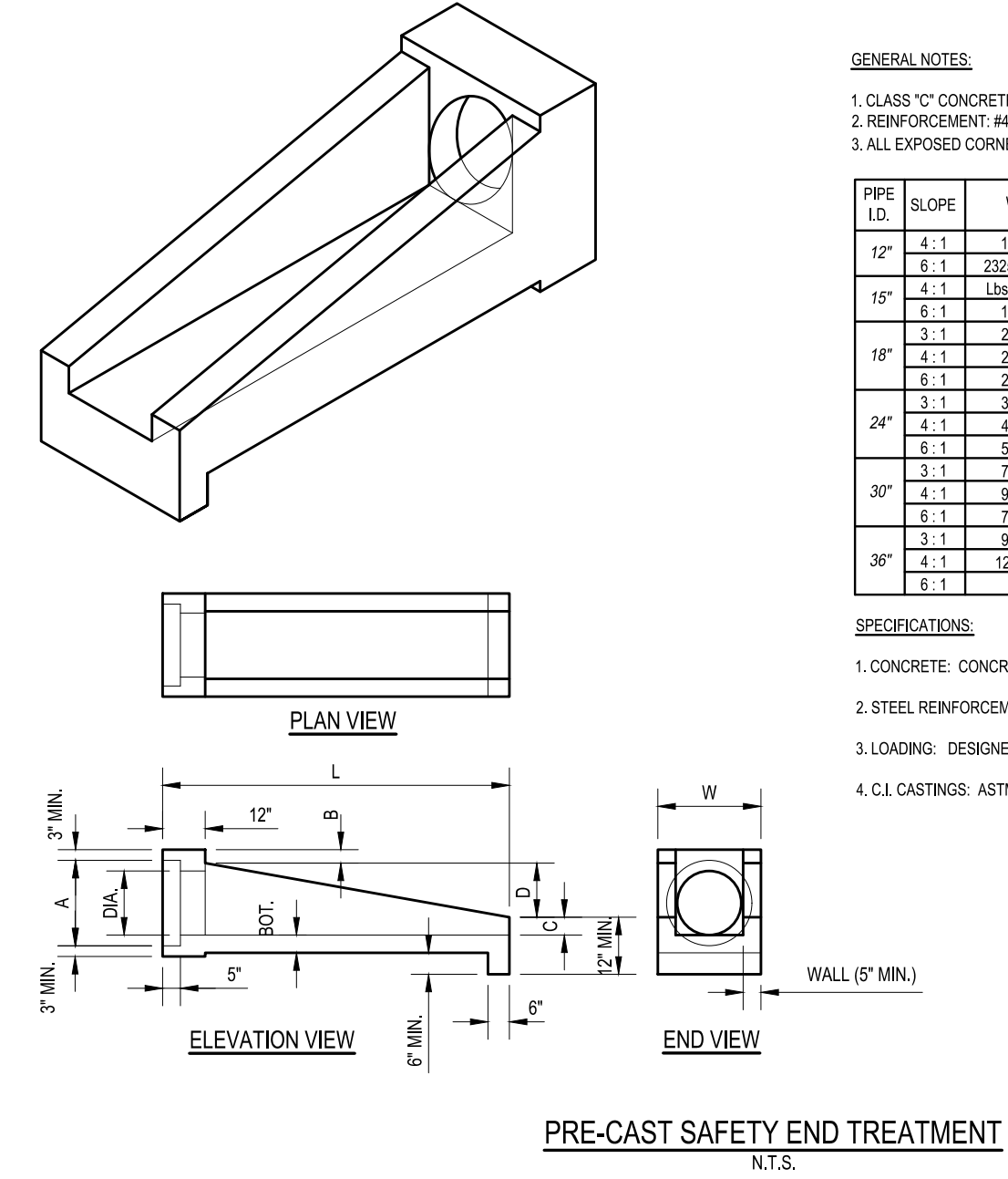
**STANDARD HEADWALL DETAIL**  
N.T.S.



**CURB INLET - WITH 5' WING EXTENSIONS**  
N.T.S.



**TYPICAL THROAT DETAIL**



**PRE-CAST SAFETY END TREATMENT**  
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**HALLSVILLE I.S.D.**  
**BOBCAT STADIUM**  
**PARKING LOT EXPANSION**  
**HALLSVILLE, TEXAS**

NO.	REVISIONS		DATE
	DESCRIPTION	BY	

**STORM SEWER DETAIL SHEET**  
**ISSUED FOR BIDDING**

**GENERAL NOTES:**

- CLASS "C" CONCRETE.
- REINFORCEMENT #4 AT 8" O.C.E.W.
- ALL EXPOSED CORNERS SHALL BE CHAMFERED 1/4".

PIPE I.D.	SLOPE	WEIGHT	W	L	WALL	BOT.	A	B	C	D
12"	4:1	1440 Lbs.	26"	60"	5"	5"	17"	3 1/2"	6" 6"	12" 12"
	6:1	2235 Lbs.	26"	84"	5"	5"	17"	3 1/2"	6" 6"	12" 12"
	4:1	1860 Lbs.	26"	60"	5"	5"	20 1/2"	3 1/2"	6" 6"	14" 14"
	6:1	1860 Lbs.	30"	84"	5"	5"	20 1/2"	3 1/2"	6" 6"	14" 14"
	3:1	2055 Lbs.	26"	64 1/2"	5"	5"	24"	4"	6" 6"	14" 14"
	4:1	2985 Lbs.	26"	84"	5"	5"	24"	4"	6" 6"	21"
	6:1	2985 Lbs.	26"	84"	5"	5"	24"	4"	6" 6"	21"
	3:1	3520 Lbs.	30"	75"	5"	5"	31"	4"	6" 6"	21"
	4:1	4845 Lbs.	30"	96"	5"	5"	31"	4"	6" 6"	29"
	6:1	4845 Lbs.	30"	135"	5"	5"	31"	4"	6" 6"	29"
	3:1	7070 Lbs.	44"	96"	6"	6"	38 1/2"	5"	8" 8"	29"
	4:1	9550 Lbs.	44"	128"	6"	6"	38 1/2"	5"	8" 8"	36"
	6:1	7310 Lbs.	44"	165"	6"	6"	38 1/2"	5"	8" 8"	36"
	3:1	9180 Lbs.	50"	120"	6"	6"	45 1/2"	5"	8" 8"	36"
	4:1	12485 Lbs.	50"	156"	6"	6"	45 1/2"	5"	8" 8"	42"
	6:1		50"	228"	6"	6"	45 1/2"	5"	8" 8"	42"

**SPECIFICATIONS:**

- CONCRETE: CONCRETE HAS A DESIGN STRENGTH OF 5500 PSI AT 28 DAYS.
- STEEL REINFORCEMENT: ASTM A615 GRADE 60 (SEE NOTE 2)
- LOADING: DESIGNED FOR H-20 LOADING.
- C.I. CASTINGS: ASTM A 48 CLASS 3035

Drawn: F.Lee Date: 07/22/2024  
Checked: J.W.H. Date: 07/22/2024  
Title: STORM SEWER DETAIL SHEET  
Project: BOBCAT STADIUM PARKING LOT EXPANSION  
Sheet: C9.2  
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ELECTRICAL ABBREVIATIONS					
A	AMPERES	G	GROUND	NO	NORMALLY OPEN, NUMBER
AFF	ABOVE FINISHED FLOOR	GA	GAUGE	NTS	NOT TO SCALE
AIC	AMPERES INTERRUPTING CAPACITY	GFI/GFCI	GROUND FAULT INTERRUPTER	OD	OUTSIDE DIAMETER
AL	ALUMINUM	HDG	HOT DIPPED GALVANIZED	P	POLE
AMPS	AMPERES	HP	HORSEPOWER	P&I	PROVIDE AND INSTALL
C	CONDUIT	HZ	HERTZ	PH	PHASE
CB	CIRCUIT BREAKER	ID	INTERNAL DIAMETER	PR	PAIR SHIELDED CABLE
CPB	CONCRETE PULL BOX	IG	ISOLATED GROUND	PVC	POLYVINYL CHLORIDE CONDUIT
CS	COMBINATION STARTER	JB, J	JUNCTION BOX	SS	STAINLESS STEEL
CT	CURRENT TRANSFORMER	KVA	KILOVOLT-AMPERE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
CTC C/C	CENTER TO CENTER	KW	KILOWATT	UNO	UNLESS NOTED OTHERWISE
EGC	EQUIPMENT GROUNDING CONDUCTOR	LED	LIGHT EMITTING DIODE	UPS	UNINTERRUPTIBLE POWER SUPPLY
EWC	ELECTRIC WATER COOLER	MCB	MAIN CIRCUIT BREAKER	V	VOLT
F&I	FURNISH AND INSTALL	MH	MANHOLE	VFD	VARIABLE FREQUENCY DRIVE
FT	FEET	MLO	MAIN LUGS ONLY	W	WATT
		NC	NORMALLY CLOSED	WP	WEATHERPROOF
		NF	NON-FUSED	XFMR	TRANSFORMER

ELECTRICAL SHEET INDEX	
E0.0	ELECTRICAL LEGENDS AND NOTES
E1.0	PARKING LOT LIGHTING PLAN
E4.0	ELECTRICAL SCHEDULES AND DETAILS


**IMPORTANT INFORMATION:**

SHOULD THE DRAWINGS OR SPECIFICATIONS CONFLICT WITHIN THEMSELVES, OR WITH EACH OTHER, THE REQUIREMENT WITH THE GREATEST QUANTITY AND/OR THE HIGHEST QUALITY SHALL PREVAIL. THE DECISION OF THE ENGINEER OF RECORD FOR THE SYSTEM BEING INSTALLED SHALL BE FINAL.

ALL WRITTEN NOTES ON THIS SHEET AND ALL OTHER SHEETS CONTAINED IN THESE PLANS SHALL BE READ AND UNDERSTOOD BY THE GENERAL CONTRACTOR AND ALL SUB CONTRACTORS. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS TO COORDINATE WITH EACH OTHER TO DELIVER COMPLETE, FUNCTIONING SYSTEMS AS SHOWN IN THESE PLANS.

- ELECTRICAL NOTES:**
- THE ELECTRICAL SYSTEM SHOWN ON THE DRAWINGS IS ONLY DIAGRAMMATIC. ALL ITEMS REQUIRED TO MAKE THE SYSTEM COMPLETE AND IN SAFE WORKING ORDER SHALL BE PROVIDED. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES. EQUIPMENT SHOWN ON THE FLOOR PLANS AND ELEVATIONS ILLUSTRATE THE ARRANGEMENT AND SPACE ALLOCATIONS. THE CONTRACTOR SHALL VERIFY THE SPACE REQUIREMENTS FOR EACH SYSTEM COMPONENT USING MANUFACTURER CERTIFIED SHOP DRAWINGS AND MAKE THE NECESSARY ADJUSTMENTS IN EQUIPMENT PLACEMENT AND CONNECTION IN ORDER TO ACCOMMODATE THE EXACT EQUIPMENT TO BE INSTALLED.
  - CONTRACTOR IS RESPONSIBLE FOR FILING/PAYING FOR PERMITS AND CERTIFICATES OF INSPECTION THAT PERTAIN TO WORK DONE BY CONTRACTOR. CONTRACTOR SHALL DELIVER COPIES OF ALL PERMITS AND CERTIFICATES OF INSPECTION TO OWNER/CONSTRUCTION MANAGER.
  - CONTRACTOR SHALL PROVIDE JOB SPECIFIC SUBMITTALS ON ALL SCHEDULED EQUIPMENT AND ALL DEVICES, PANELS AND FIXTURES, INSTALLED UNDER THIS SCOPE OF WORK. SUBMITTALS SHALL INCLUDE BUT NOT BE LIMITED TO PRODUCT DATA, DIMENSIONED DRAWINGS, PERFORMANCE DATA, ELECTRICAL DATA, CERTIFICATIONS.
  - THE ELECTRICAL SYSTEM SHALL COMPLY WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, AND ANY OTHER AUTHORITIES HAVING JURISDICTION OVER THE WORK.
  - COORDINATE WORK WITH ALL OTHER TRADES.
  - THE ELECTRICAL EQUIPMENT INCLUDING BUT NOT LIMITED TO CONDUIT, WIRE, BOXES AND FITTINGS SHALL BE NEW AND SHALL MEET NEMA AND ANSI STANDARDS AND BEAR THE U.L. LABEL.
  - ALL WORK AND MATERIALS SHALL BE GUARANTEED FREE FROM DEFECTS FOR A MINIMUM PERIOD OF ONE YEAR UNLESS NOTED OTHERWISE. THE WARRANTY PERIOD SHALL BEGIN AT THE DATE OF BENEFICIAL OCCUPANCY OF THE FACILITY.
  - AT THE COMPLETION OF THE JOB, THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF AS-BUILTS, OPERATION AND MAINTENANCE MANUALS FOR ALL EQUIPMENT AND SHALL INSTRUCT OWNER'S MAINTENANCE PERSONNEL ON ALL OPERATING PROCEDURES.
  - ALL HANGERS, RODS, ANGLES, STRUT CHANNELS, ATTACHMENTS, ANCHORS, STRAPS, BOLTS, NUTS, WASHERS AND SCREWS SHALL BE GALVANIZED OR BE OF SIMILAR MATERIAL AS COMPONENT BEING SUPPORTED. ALL-THREAD RODS SHALL HAVE EXCESS LENGTH CUT OFF TO A MAXIMUM LENGTH OF 1" ABOVE/BELOW ATTACHMENT.
  - SEAL ALL CONDUITS AT TERMINATIONS THAT RUN BELOW THE SLAB TO MAKE THEM WATER TIGHT.
  - ALL JUNCTION BOXES SHALL BE ACCESSIBLE FOR FUTURE SERVICE PER NEC.
  - CONDUIT SHALL NOT BE ROUTED EXPOSED IN FINISHED AREAS UNLESS NOTED OTHERWISE.
  - ALL CONDUITS BELOW GRADE SHALL BE PVC WITH LONG SWEEP ELBOWS.
  - ALL BELOW GRADE GROUNDING CONNECTIONS SHALL BE EXOTHERMIC - NO EXCEPTIONS.
  - A SEPARATE INSULATED GROUNDING CONDUCTOR SHALL BE PULLED WITH THE CIRCUIT CONDUCTORS FOR GROUNDING WHETHER OR NOT INDICATED ON THE DRAWINGS. METAL RACEWAY OR CABLE ARMOR OR SHEATH SHALL NOT BE USED AS AN EQUIPMENT GROUNDING CONDUCTOR.
  - CONTRACTORS NEED TO MAKE SITE VISIT PRIOR TO BID. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.

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**ELECTRICAL LEGENDS AND NOTES**

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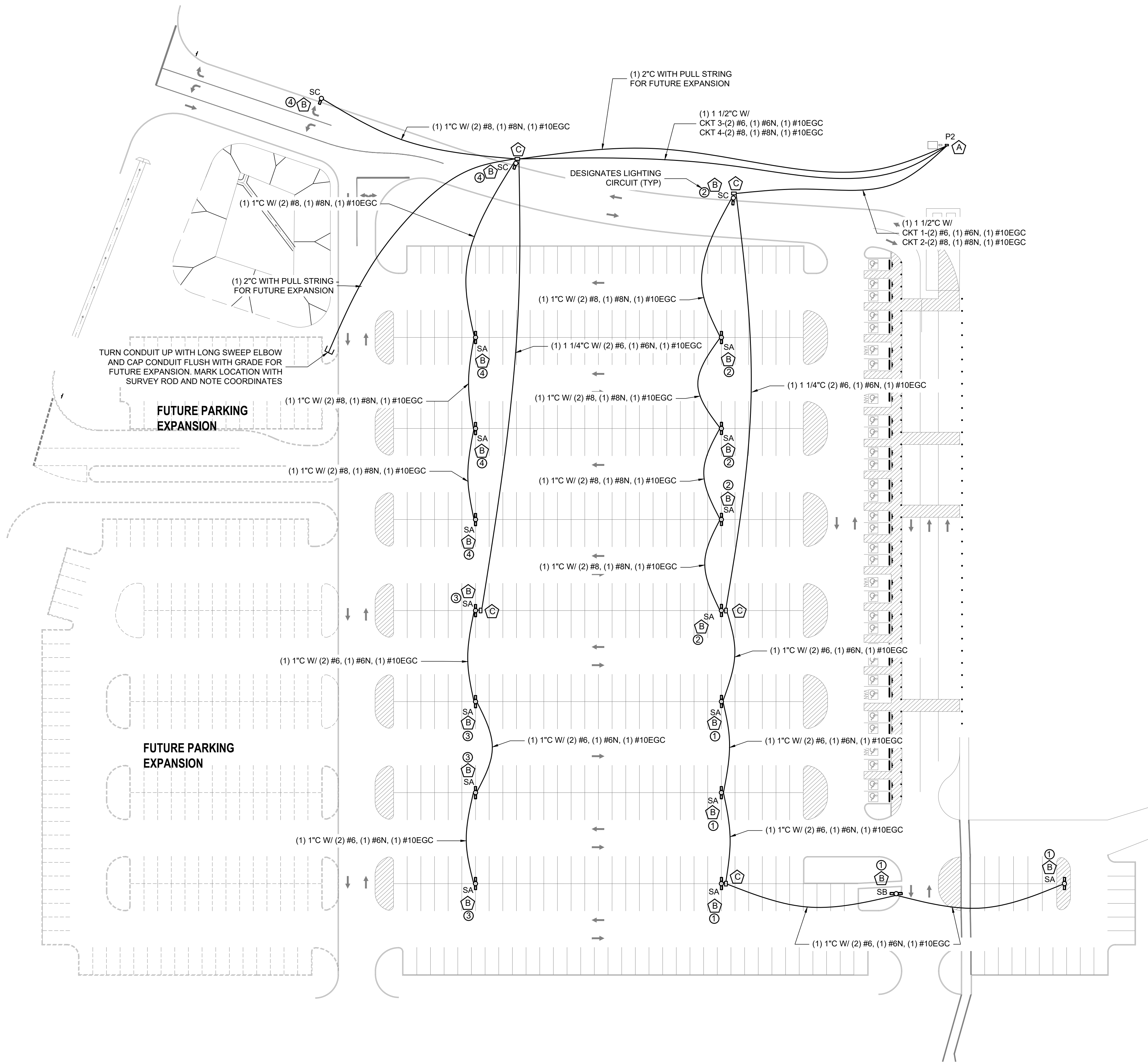


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PROJECT NO: 2025-5012	SHEET NO: 0	PROJECT TITLE: E0.0

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**X TAG NOTES (THIS SHEET ONLY):**

- A F&I NEW PANEL AS SCHEDULED. F&I NEW FEEDER FROM EXISTING PAD MOUNT TRANSFORMER TO NEW PANEL. F&I FABRICATED STRUT CHANNEL RACK AND MOUNT PANEL ON RACK. REFERENCE ELECTRICAL DETAILS AND ONE LINE DIAGRAM FOR ADDITIONAL INSTALLATION INSTRUCTIONS.
- B F&I POLE BASE AND LIGHT FIXTURE AS SCHEDULED. REFERENCE ELECTRICAL DETAILS FOR ADDITIONAL INSTALLATION INSTRUCTIONS. COORDINATE INSTALLATION OF FIXTURES AND CONDUITS WITH SITE CONTRACTOR.
- C F&I QUAZITE PG1324BG18, 13"x24"x18" POLYMER CONCRETE PULL BOX WITH T22ANSI LOAD RATING. F&I GASKETED LID WITH SELF ALIGNING STAINLESS STEEL EZ-NUTS. LID SHALL BE MARKED ELECTRICAL.

**X LIGHTING CIRCUIT SCHEDULE:**

- 1 P2-1,3
- 2 P2-5,7
- 3 P2-9,11
- 4 P2-13,15

**1 PARKING LOT LIGHTING PLAN**  
1" = 40'-0"

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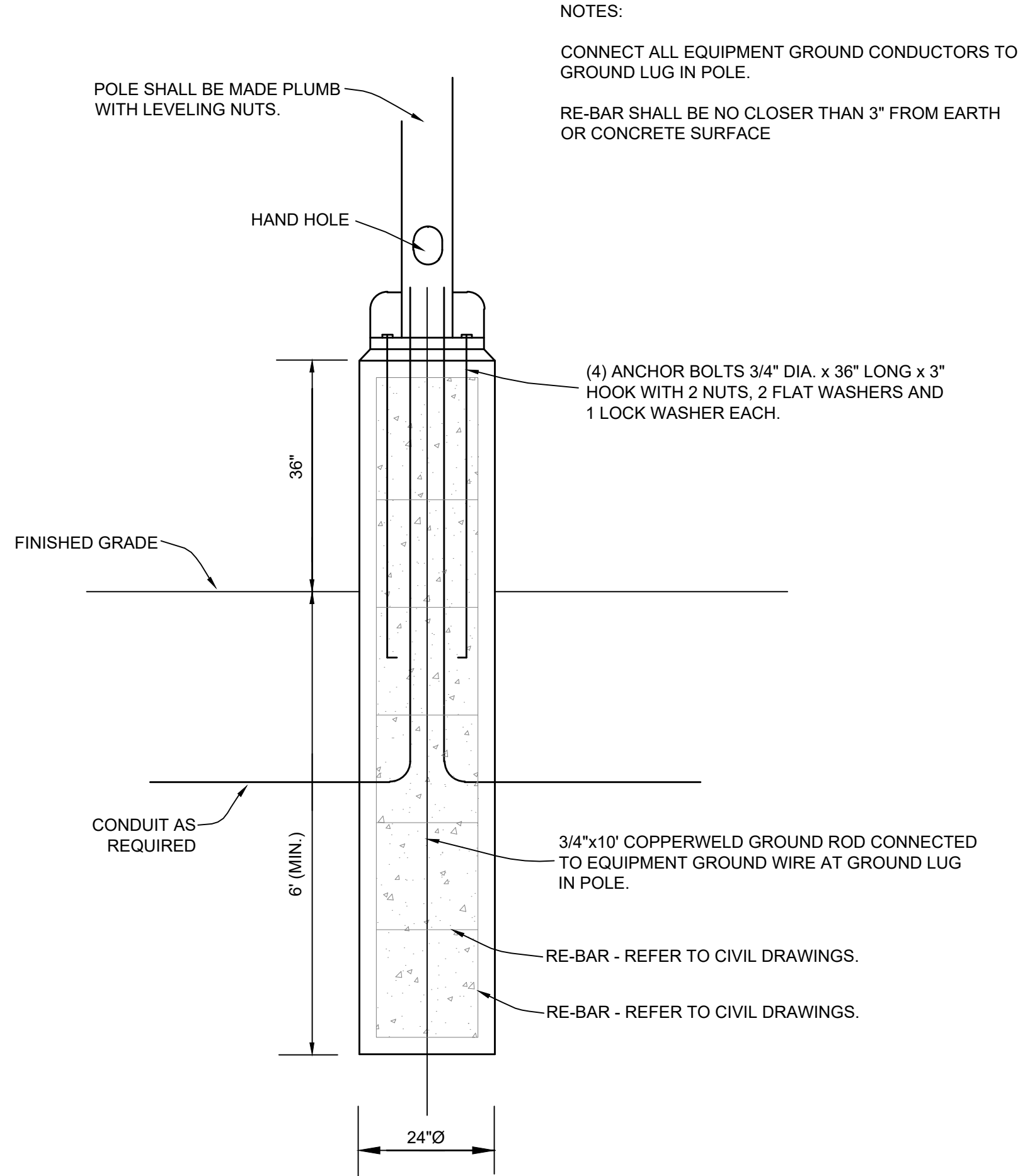
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NO.	DESCRIPTION

**PARKING LOT LIGHTING PLAN**  
  
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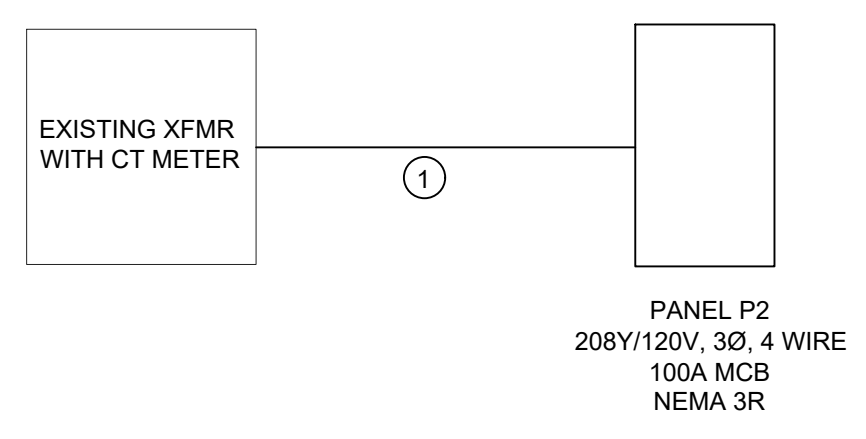
NOTES:  
 CONNECT ALL EQUIPMENT GROUND CONDUCTORS TO GROUND LUG IN POLE.  
 RE-BAR SHALL BE NO CLOSER THAN 3" FROM EARTH OR CONCRETE SURFACE

NOTE:  
 THIS DETAIL IS FOR ILLUSTRATION ONLY. REFER TO CIVIL DRAWINGS FOR CONSTRUCTION DETAILS.

**1 AREA LIGHTING POLE FOUNDATION DETAIL**  
 SCALE: N.T.S.

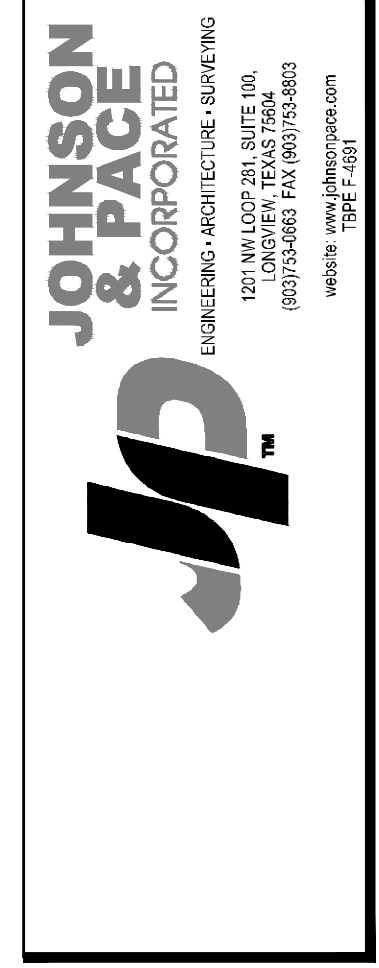
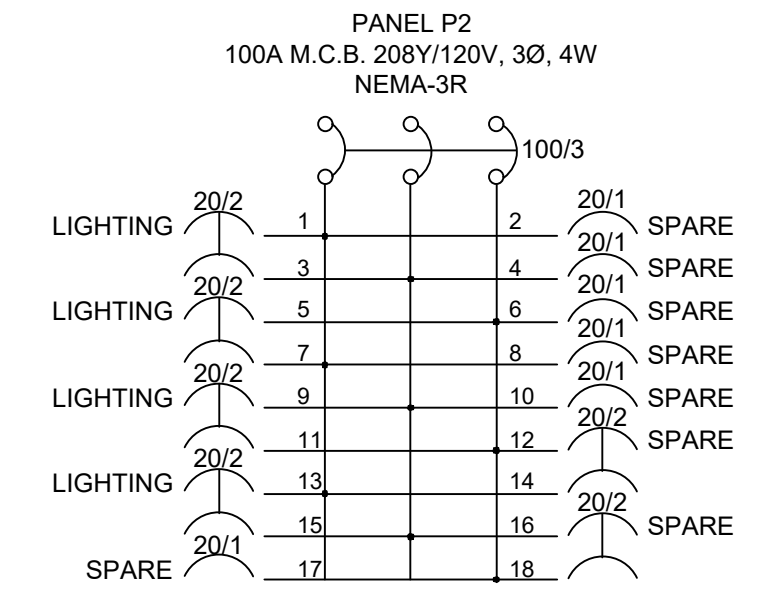
(X) FEEDER SCHEDULE:

1	1 1/2" C W / (3) #1, (1) #3N, (1) #8 EGC
---	--



**2 ELECTRICAL ONE LINE DIAGRAM**  
 SCALE: N.T.S.

LIGHT FIXTURE SCHEDULE			
MARK	MANUFACTURER	CATALOG NUMBER	DESCRIPTION
SA	LITHONIA	DSX2 LED P3 40K 70CRI T5W MVOLT PIR DDBXD / DM28AS SNS-30-50-7-AB	D SERIES LED FIXTURE, DARK BRONZE FINISH, 4000° COLOR TEMP, PHOTOCELL, OCCUPANCY SENSOR FOR UNOCCUPIED DIMMING. 30" 5"x5" SQUARE STEEL POLE, DARK BRONZE FINISH
SB	LITHONIA	DSX2 LED P3 40K 70CRI T3M MVOLT PIR DDBXD / DM28AS SNS-30-50-7-AB	D SERIES LED FIXTURE, DARK BRONZE FINISH, 4000° COLOR TEMP, PHOTOCELL, OCCUPANCY SENSOR FOR UNOCCUPIED DIMMING. 30" 5"x5" SQUARE STEEL POLE, DARK BRONZE FINISH
SC	LITHONIA	DSX2 LED P3 40K 70CRI T3M MVOLT PIR DDBXD / DM19AS SNS-30-50-7-AB	D SERIES LED FIXTURE, DARK BRONZE FINISH, 4000° COLOR TEMP, PHOTOCELL, OCCUPANCY SENSOR FOR UNOCCUPIED DIMMING. 30" 5"x5" SQUARE STEEL POLE, DARK BRONZE FINISH



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