SITE DEVELOPMENT PLANS FOR

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

2 BOBCAT LANE
HALLSVILLE, TX 75650







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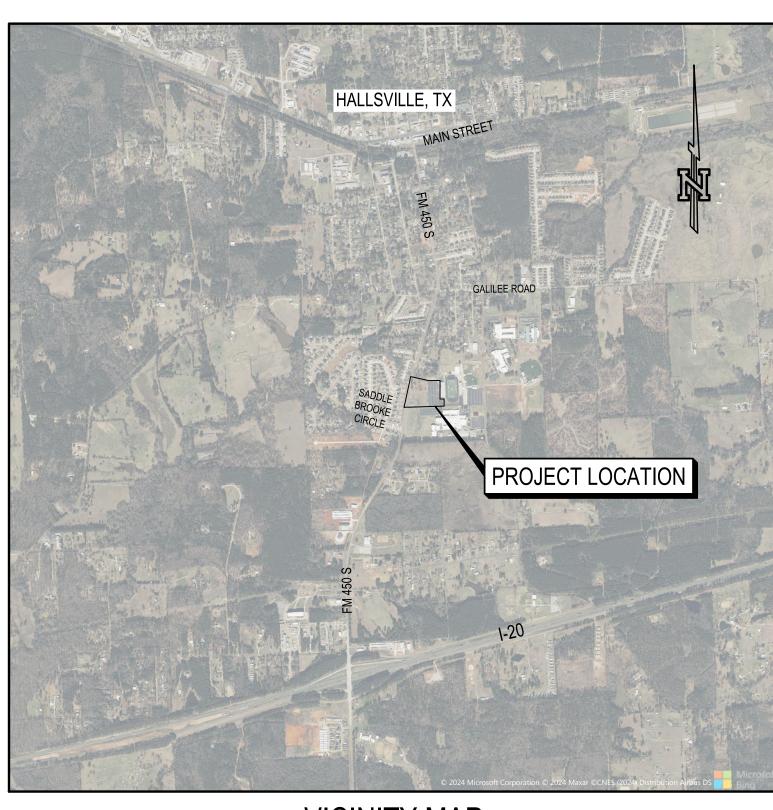
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VICINITY MAP

N.T.S.

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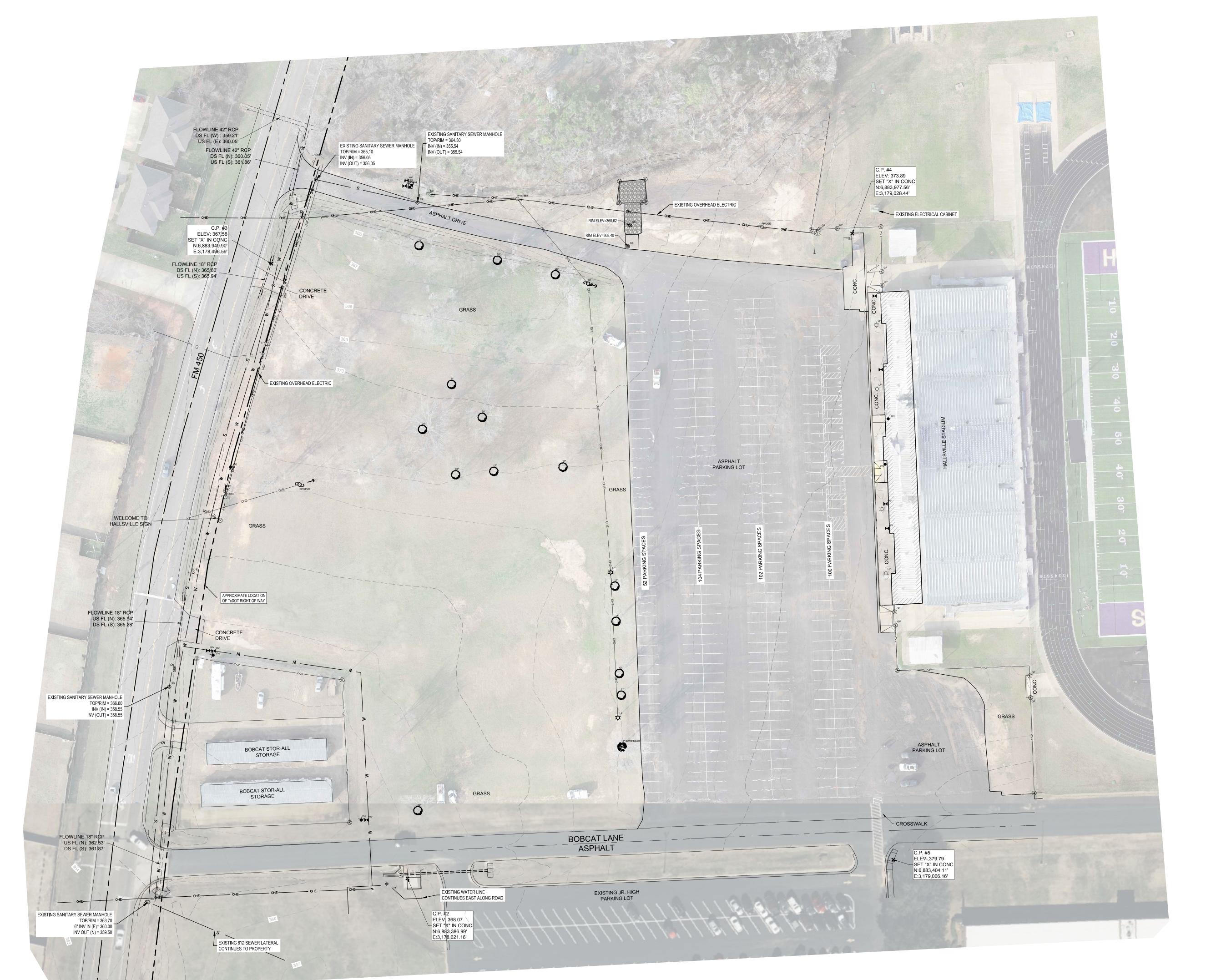
HALLSVILLE INDEPENDENT SCHOOL DISTRICT

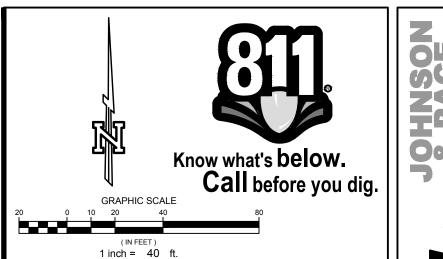
SUPERINTENDENT:

JOHN MARTIN
300 WILLOW STREET
HALLSVILLE, TX 75650
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EMAIL: jmartin@hisd.com

HISD BOARD OF TRUSTEES:

JAY NELSON, PRESIDENT
DALE HANEY, VICE PRESIDENT
TROY CRAFTON, SECRETARY
DOUG McGARVEY, ASSISTANT SECRETARY
JASON AINSWORTH, TRUSTEE
MATT FOLMER, TRUSTEE
SHANE GOSWICK, TRUSTEE





LEGEND

ALL UTILITIES ARE EXISTING UNLESS NOTED OTHERWISE PROPOSED P-6"W OF LINE —— — — BOUNDARY LINE s ANITARY SEWER LINE OVERHEAD ELECTRIC / TELEPHONE LINE UNDERGROUND ELECTRIC LINE 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 ELECTRIC TRANSFORMER PAD TREE LEGEND OAK TREE (1) PINE TREES (2) SWEETGUM TREES (1) OTHER TREES (42)

REFERENCE MARKERS

BOUNDARY INFORMATION SHOWN HEREON.

TOPOGRAPHIC SURVEY NOTE

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

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

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 - 6,883,977.56 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 - 367.58'	CP #5	SET 'X' IN CONCRETE NORTHING - 6,883,404.11 EASTING - 3,179,066.16 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 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.

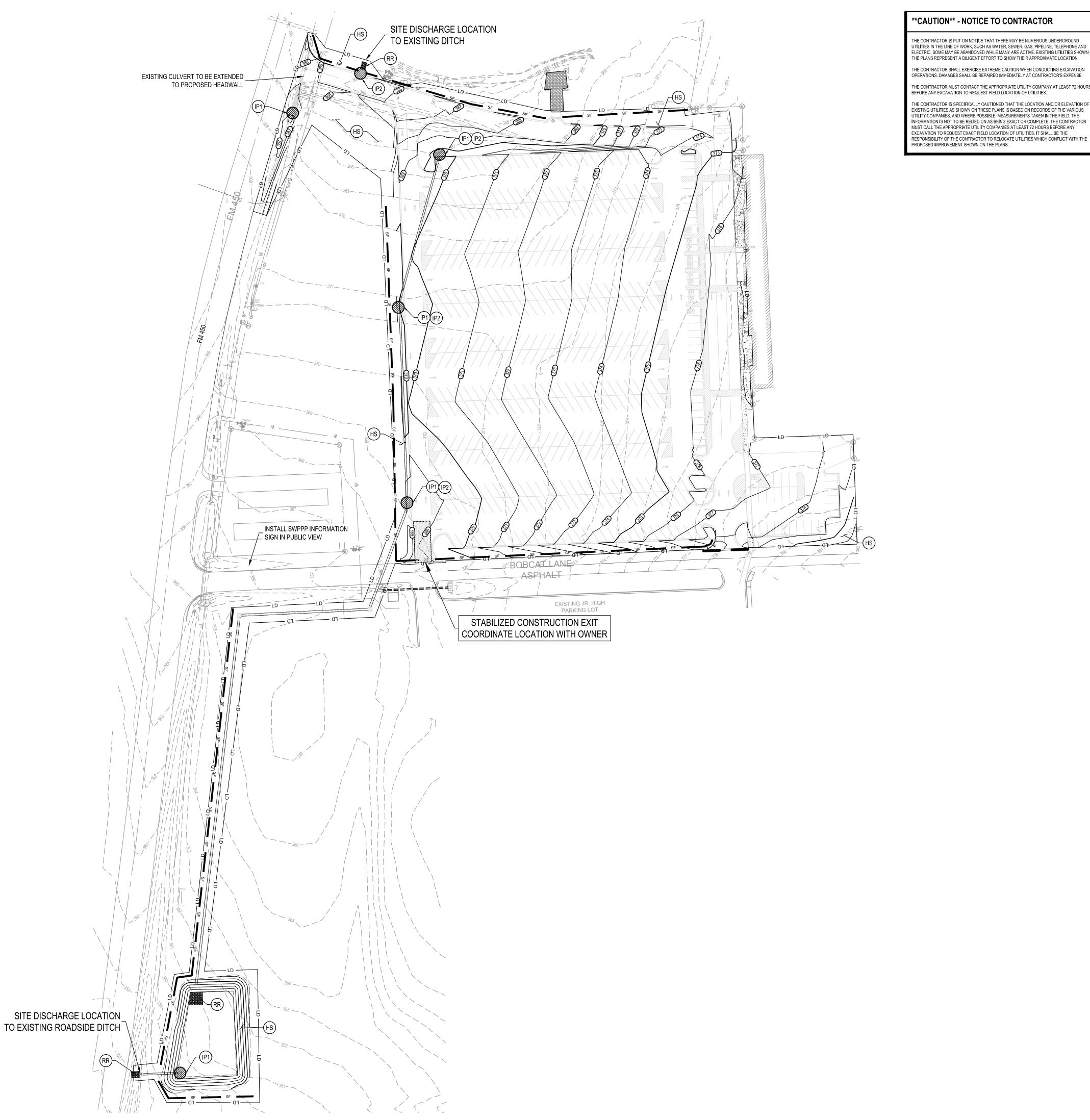
2695-012 9/9/2025

WWN BY: CHECKED BY: APPROVED BY: SCALE:

JMC BDB JWH 1"=40'

REVISION NO:

C1.0 -



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OWNER/DEVELOPER CONTACT INFORMATION

HALLSVILLE INDEPENDANT SCHOOL DISTRICT MATT TUCKER - MAINTENANCE DIRECTOR (903) 668-5990 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, FORM SEWER INFRASTRUCTURE, PAVING AND STRIPING.

ATITUDE: NORTH 32 DEG 29 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" = 0.58 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

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 HYDROSEEDED OR SODDED AND COVER SHALL BE ESTABLISHED TO PREVENT

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 10 SQUARE FOOT AREA AND BARE SPOTS NOT EXCEEDING 5x5 INCHES.

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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 (800-245-4545) 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.

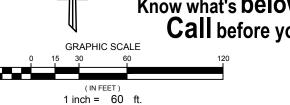
WEATHER NOTE

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 TPDES GENERAL PERMIT FOR THIS PROJECT. THE SITE MAP SHALL BE REVISED AND DATED IF THESE OCATIONS CHANGE.







		ALL UTILITIES ARE EXISTING UNLESS NOTED OTHERWISE	INDICATES PROPOSED	P-6"W INDICATES TO OF LINE INDICATES SIZE OF LINE
	I		BOUNDARY LINE	
_	ı		EASEMENT LINE	
	ı	×	FENCE LINE	
		——— w ———	WATER LINE	

OVERHEAD ELECTRIC / TELEPHONE LINE

s ——— s ——— SANITARY SEWER LINE

UNDERGROUND ELECTRIC LINE GAS LINE FIRE LANE

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 **GUY WIRE**

ELECTRIC TRANSFORMER PAD

EROSION CONTROL LEGEND

LD LIMIT OF DISTURBANCE TEMPORARY SILT FENCE (APPROXIMATE LOCATION SHOWN

OFFSET FOR CLARITY) (NO MORE THAN 1/4 ACRE OF UPLAND SLOPE
AREA PER 100 FEET OF SILT FENCE). SEE SHEET C2.2 FOR DETAILS.

INDICATES DIRECTION OF PROPOSED OVERLAND FLOW

— - - - DIVERSION DITCH / BERM FLOW

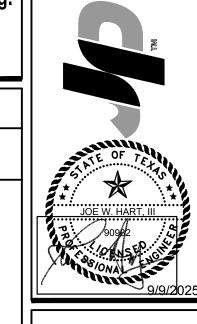
FILTER FILTRATION TUBE (SEE SHEET C2.1 FOR DETAIL)

HYDROSEED STABILIZATION (SEE NOTE, THIS SHEET) INLET PROTECTION TYPE 1 (SEE SHEET C2.1 FOR DETAIL)

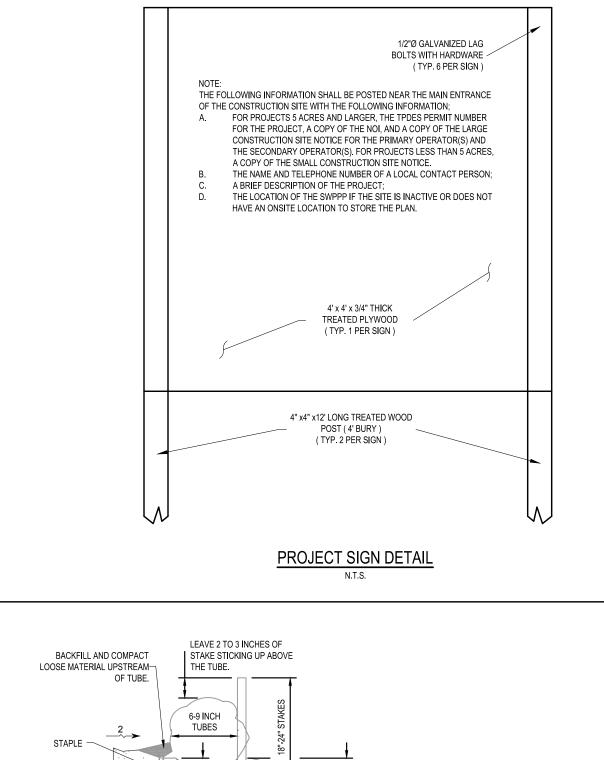
INLET PROTECTION TYPE 2 (SEE SHEET C2.1 FOR DETAIL)

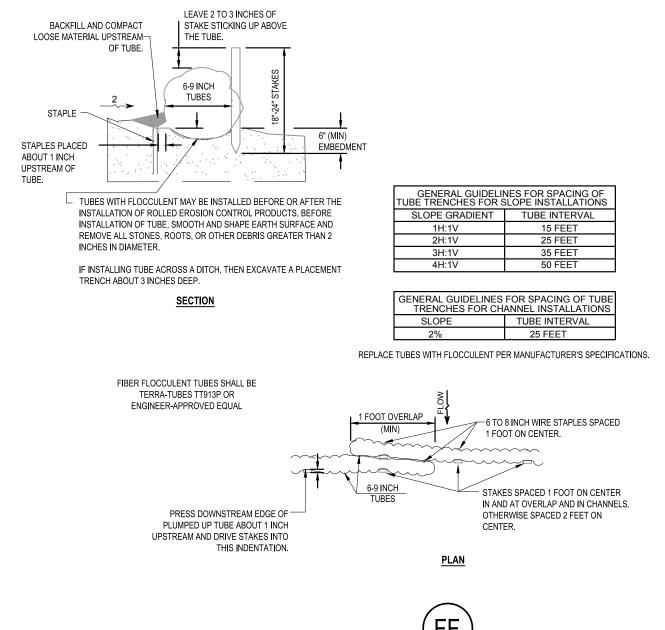
ROCK RIP-RAP (SEE SHEET C2.1 FOR DETAIL)

	SOIL EROSION/SEDIMENTATION CONTROL OPER (NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR										
	CONSTRUCTION SEQUENCE	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG
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).										

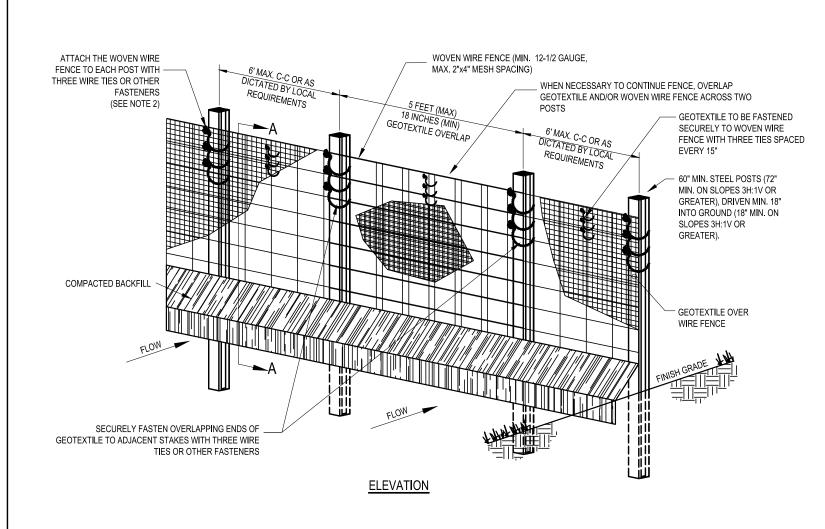


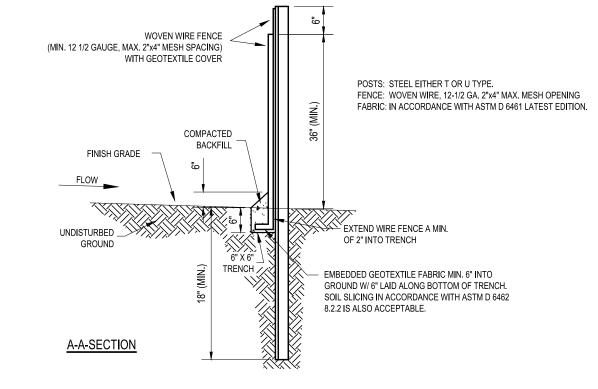
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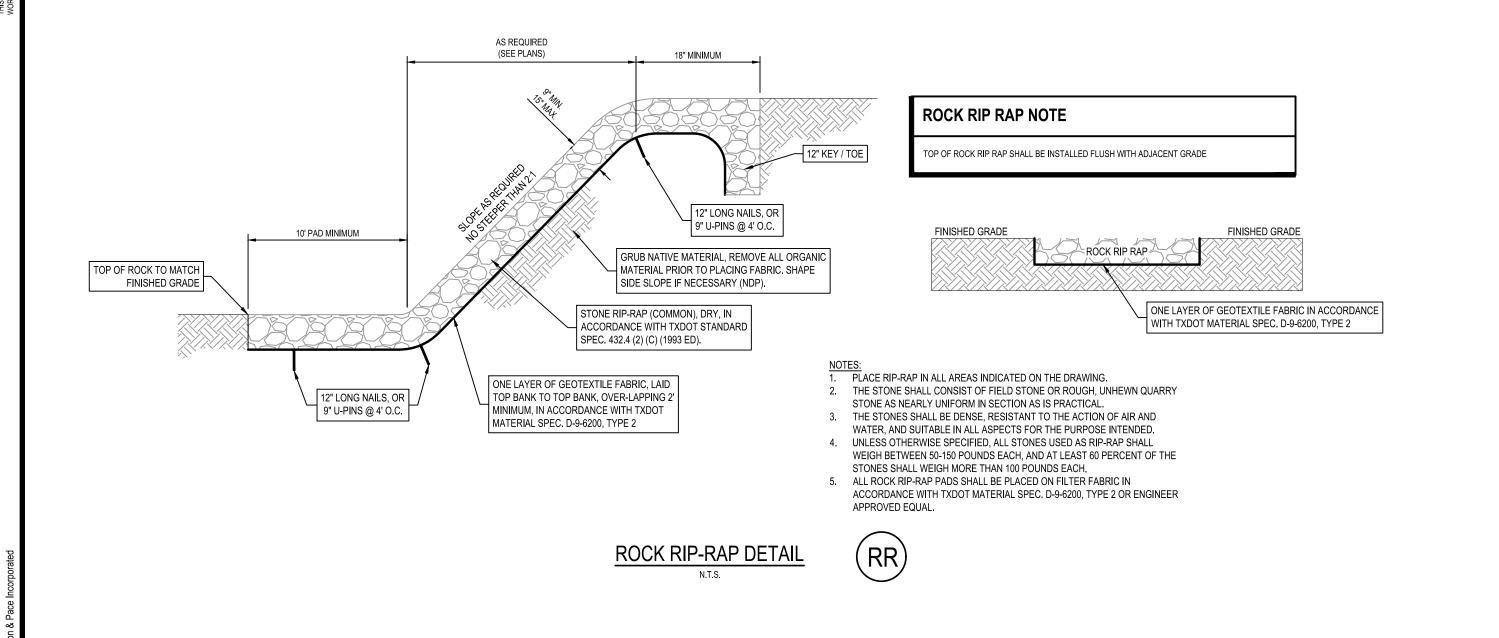
FIBER FILTRATION TUBE DETAIL

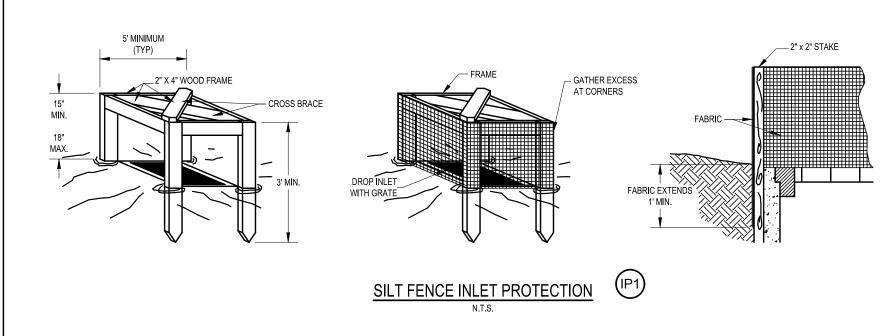


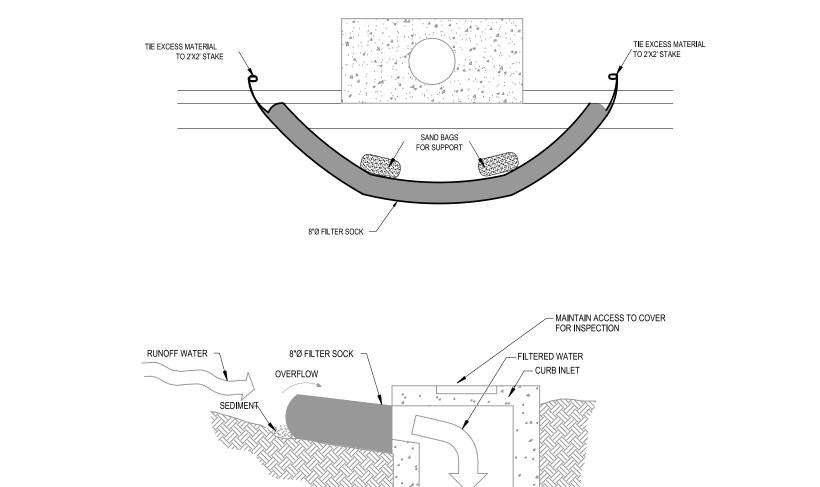


- INSTALLATION SHALL COMPLY WITH ASTM D 6462 LATEST EDITION. ATTACH THE WOVEN WIRE FENCE TO EACH POST AND THE GEOTEXTILE TO THE WOVEN WIRE FENCE (SPACED EVERY 15") WITH THREE WIRE TIES OR OTHER FASTENERS, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART. ALSO, EACH TIE PLACED ON A POST SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT
- WHEN TWO SECTIONS OF GEOTEXTILE ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED ACROSS TWO POSTS, 60" MAX. AS SHOWN. MAINTENANCE SHALL BE PERFORMED AS NOTED IN THE SWPPP. DEPTH OF ACCUMULATED SEDIMENTS MAY NOT EXCEED 1/2 THE HEIGHT OF THE FENCE. MAINTENANCE CLEANOUT MUST BE CONDUCTED REGULARLY TO PREVENT ACCUMULATED SEDIMENTS FROM REACHING 1/2 THE HEIGHT OF THE FENCE FABRIC ABOVE GRADE
- ALL SILT FENCE SHALL INCLUDE WIRE SUPPORT UNLESS INDICATED OTHERWISE. WRAP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
- COMPACTING IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQ. INCH. COMPACT THE UPSTREAM SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS
- 8. ADD POST CAPS AS NEEDED BASED ON SITE CONDITIONS AND APPLICABLE AGENCY REQUIREMENTS.

SEDIMENTATION / SILT FENCE WITH WIRE SUPPORT







REPLACE TUBES WITH FLOCCULENT PER MANUFACTURER'S SPECIFICATIONS.

GENERAL EROSION CONTROL NOTES

- 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.
- 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.
- 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.
- BEST MANAGEMENT PRACTICES (BMP'S) 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. SITE MAP MUST CLEARLY DELINEATE ALL STATE WATERS, PERMITS FOR ANY CONSTRUCTION ACTIVITY IMPACTING STATE WATERS OR
- 6. CONTRACTOR SHALL MINIMIZE CLEARING TO THE MAXIMUM EXTENT PRACTICAL OR AS REQUIRED BY THE GENERAL PERMIT.

REGULATED WETLANDS, AND MUST BE MAINTAINED ON SITE AT ALL TIMES.

- 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
- 9. SUFFICIENT OIL AND GREASE ABSORBING MATERIALS AND FLOTATION BOOMS SHALL BE MAINTAINED ON SITE OR READILY AVAILABLE TO CONTAIN AND CLEANUP FUEL OR CHEMICAL SPILLS OR LEAKS.
- 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. RUBBISH, 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
- 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
- 16. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED

INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF THE SITE.

CONSTRUCTION AND PLACEMENT OF GRAVEL OR BITUMINOUS PAVING FOR ROAD CONSTRUCTION.

- 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.
- ON-SITE & OFFSITE 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
- ${\tt EROSION} \ {\tt CONTROL} \ {\tt MEASURES} \ ({\tt SILT} \ {\tt FENCES}, \ {\tt STRAW} \ {\tt BALES}, \ {\tt ETC.}) \ {\tt TO} \ {\tt PREVENT} \ {\tt EROSION}.$ 21. ALL CONSTRUCTION SHALL BE STABILIZED AT THE END OF EACH WORKING DAY, THIS INCLUDES BACKFILLING OF TRENCHES FOR UTILITY

STORM WATER POLLUTION PREVENTION SYSTEM INSPECTIONS AND MAINTENANCE

BETWEEN THE TIME THIS SWPPP IS IMPLEMENTED AND FINAL SITE STABILIZATION IS ACHIEVED, ALL DISTURBED AREAS AND POLLUTANT CONTROLS MUST BE INSPECTED AT LEAST ONCE EVERY FOURTEEN CALENDAR DAYS AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. THE PURPOSE OF SITE INSPECTIONS IS TO ASSESS PERFORMANCE OF POLLUTANT CONTROLS. THE INSPECTIONS WILL BE CONDUCTED BY THE GENERAL CONTRACTOR'S 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 WHATEVER 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 AS NECESSARY 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 BERMS 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 RESEEDED 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.

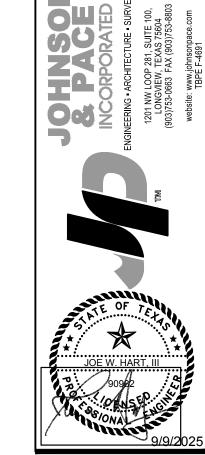
- A. EROSION AND SEDIMENT CONTROL MEASURES THAT HAVE BEEN IMPROPERLY INSTALLED OR HAVE BEEN DISABLED, RUN-OVER, REMOVED OR OTHERWISE RENDERED INEFFECTIVE MUST BE REPLACED OR CORRECTED IMMEDIATELY. MAINTENANCE AND REPAIRS WILL BE CONDUCTED
- WITHIN 24 HOURS OF INSPECTION REPORT. B. SEDIMENT WILL BE REMOVED 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 DIKES WHEN THE STORAGE CAPACITY HAS BEEN APPROXIMATELY 50% FILLED.
- 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 PLAN EFFECTIVENESS. THE INSPECTION REPORT MUST DENTIFY WHETHER THE SITE WAS IN COMPLIANCE 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.

CONSTRUCTION NOTES: 1. GRADATION OF ROCK. 2. THE ENTRANCE SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE DRESSING WITH ADDITIONAL STONE AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP 3. WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE INTO PUBLIC RIGHT-OF-WAY, WASHING SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT CONTROLLING STRUCTURE. USE SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS TO PREVENT SEDIMENT FROM ENTERING ANY STORM DRAIN, DITCH, OR 4"-6" CLEAN STONE WATER COURSE. 4. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY. GEOTEXTILE UNDERLINER

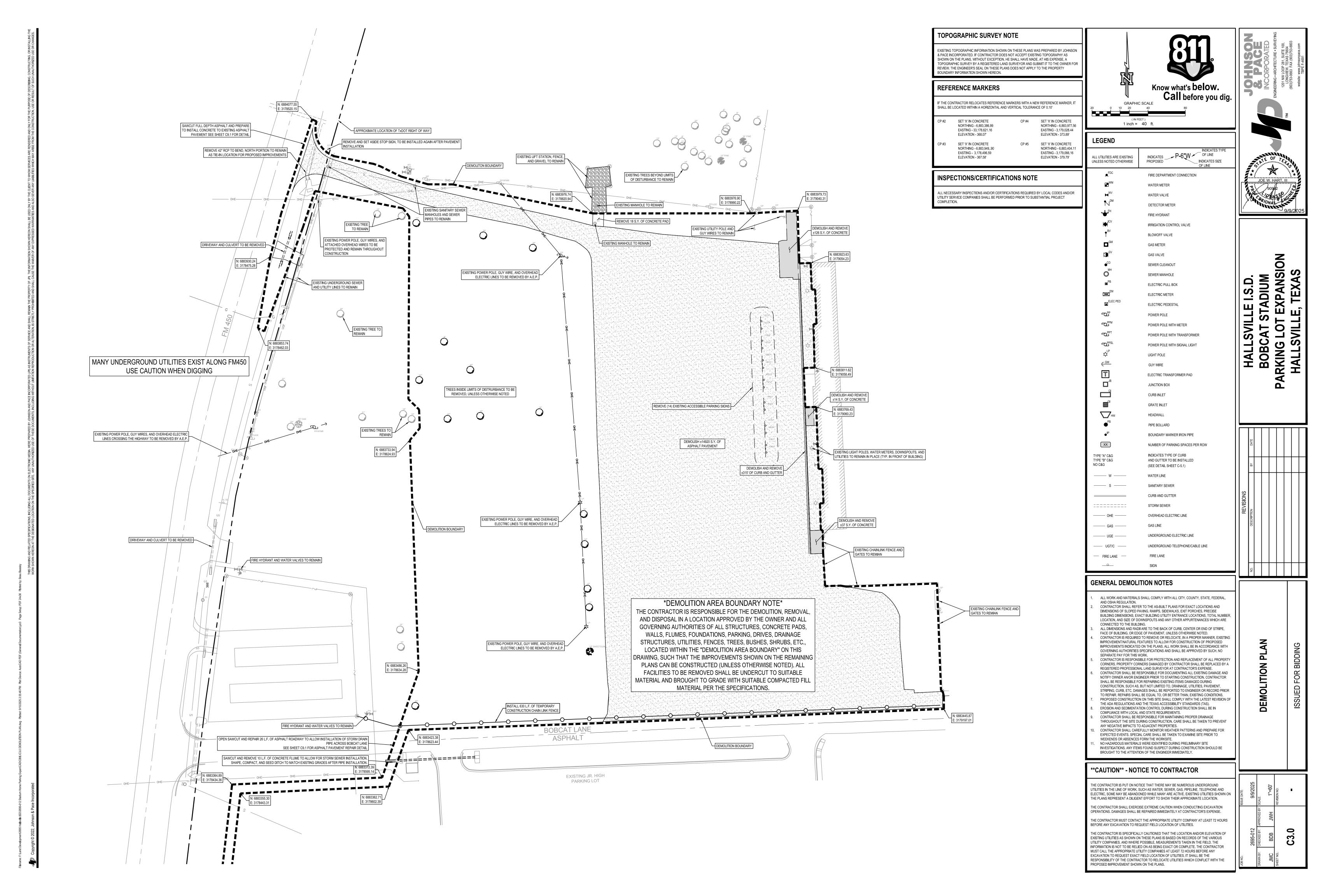
EROSION CONTROL MAINTENANCE

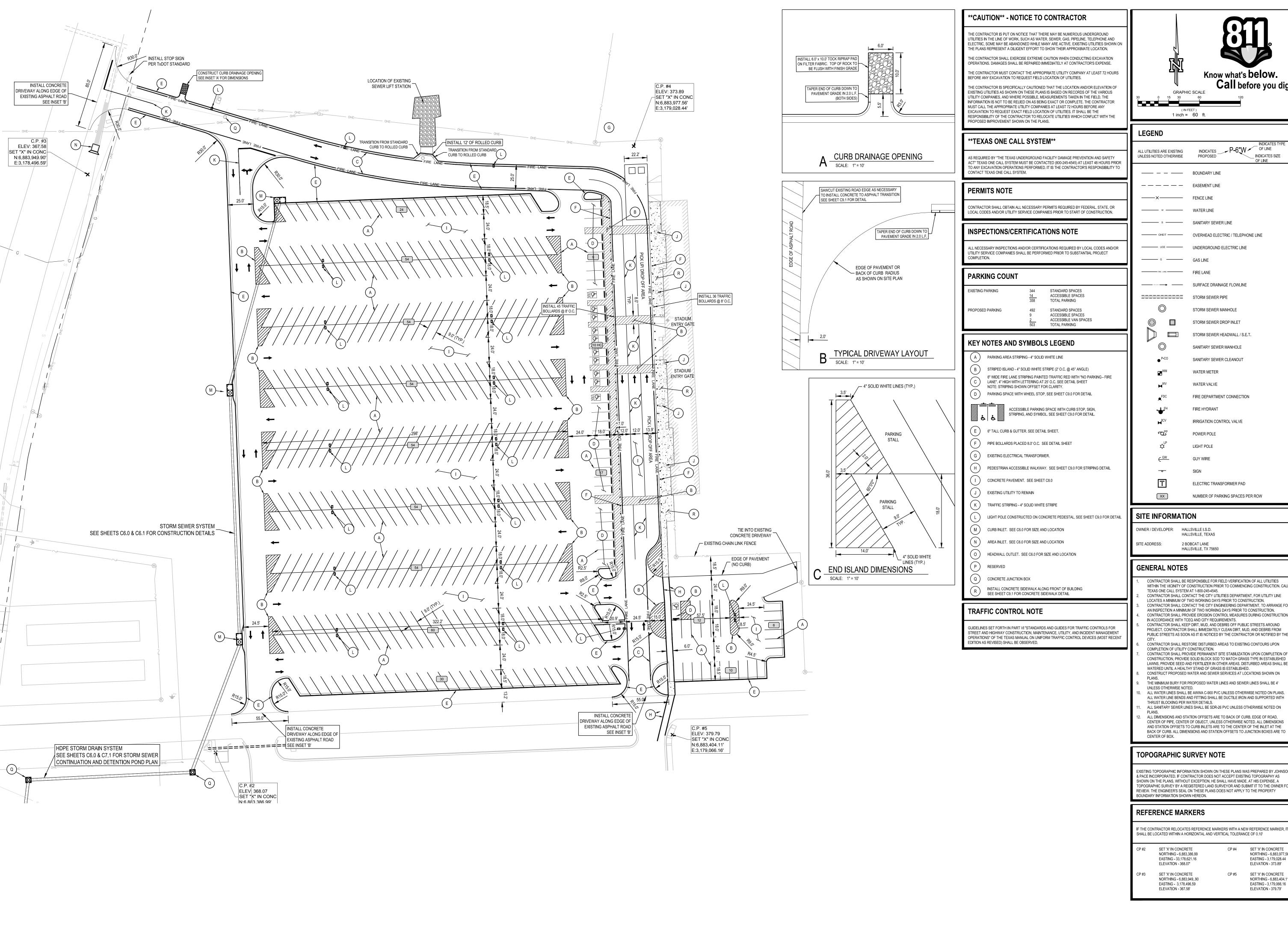
- ALL MEASURES STATED ON THIS EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE CHECKED BY A QUALIFIED PERSON AT LEAST ONCE EVERY FOURTEEN CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A 0.5" RAINFALL EVENT, AND CLEANED AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING:
- INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW SIGNS OF UNDERMINING, OR
- ALL SEEDED AREAS SHALL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHOULD BE
- FERTILIZED, WATERED, AND RESEEDED AS NEEDED. 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. 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. 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.
- 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.



ON

EROSION & SEDIMEN CONTROL DETAILS







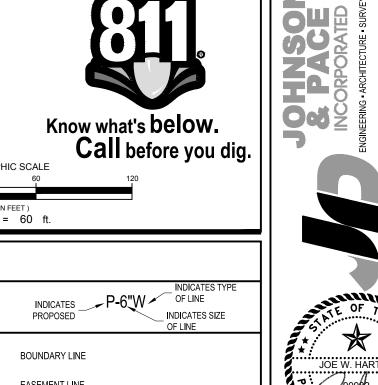
LEGEND	
ALL UTILITIES ARE EXISTING UNLESS NOTED OTHERWISE	INDICATES TYPE OF LINE PROPOSED P-6"W INDICATES SIZE OF LINE
	BOUNDARY LINE
	EASEMENT LINE
×	FENCE LINE
w	WATER LINE
s	SANITARY SEWER LINE
———— OHF/T ————	OVERHEAD ELECTRIC / TELEPHONE LINE

UNDERGROUND ELECTRIC LINE

SURFACE DRAINAGE FLOWLINE STORM SEWER PIPE

STORM SEWER MANHOLE STORM SEWER DROP INLET STORM SEWER HEADWALL / S.E.T.

SANITARY SEWER MANHOLE



WITHIN THE VICINITY OF CONSTRUCTION PRIOR TO COMMENCING CONSTRUCTION. CALI 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

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 NOTIFIED BY THE 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 SOD 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

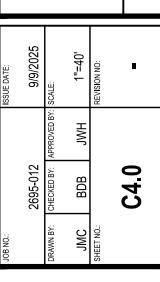
THE MINIMUM BURY FOR PROPOSED WATER LINES AND SEWER LINES SHALL BE 4' ALL WATER LINES SHALL BE AWWA C-900 PVC UNLESS OTHERWISE NOTED ON PLANS. ALL WATER LINE BENDS AND FITTING SHALL BE DUCTILE IRON AND SUPPORTED WITH

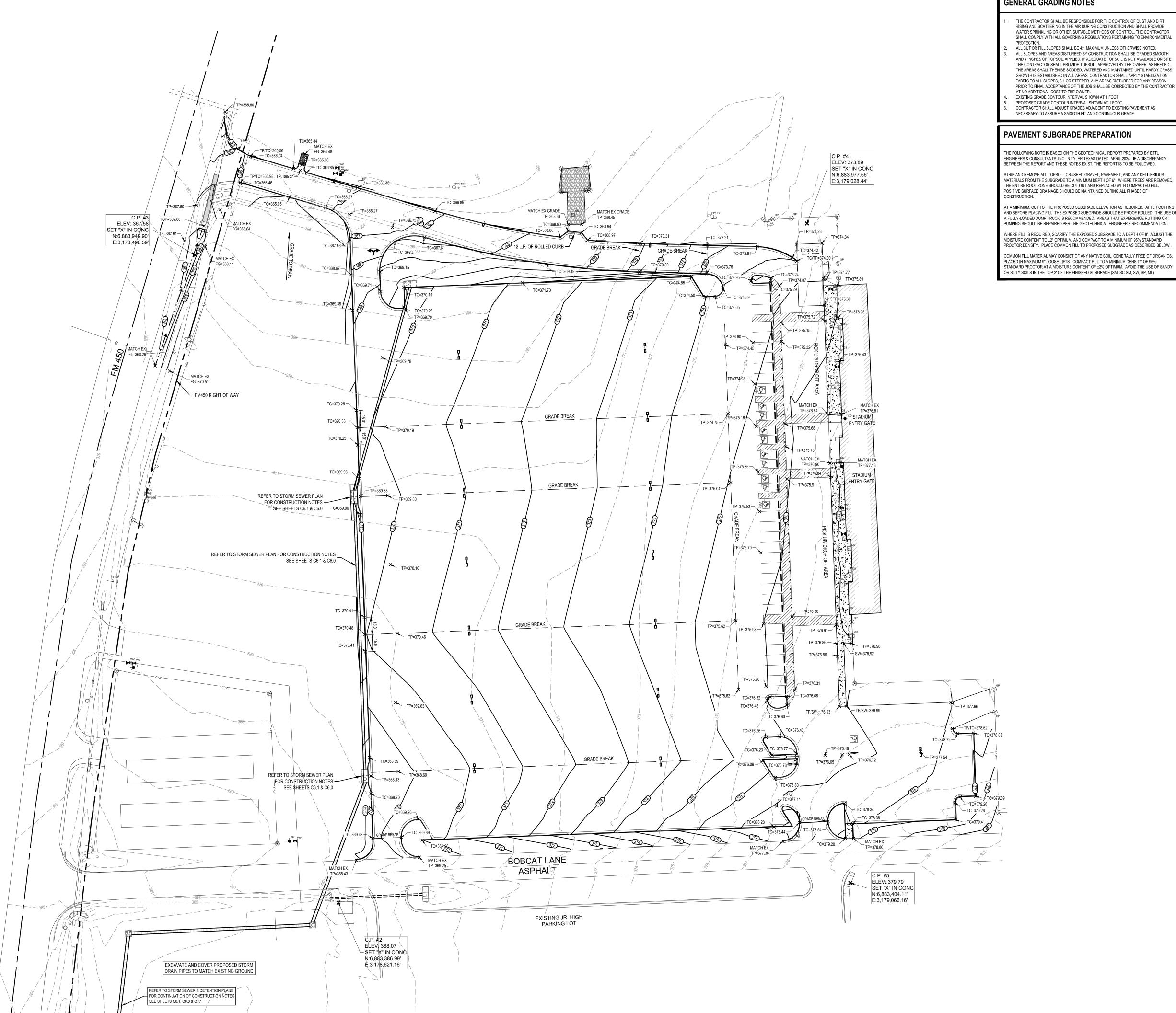
ALL SANITARY SEWER LINES SHALL BE SDR-26 PVC UNLESS OTHERWISE NOTED ON ALL DIMENSIONS AND STATION OFFSETS ARE TO BACK OF CURB, EDGE OF ROAD,

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 OPOGRAPHIC 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.

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

P #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 - 6,883,977.56 EASTING - 3,179,028.44 ELEVATION - 373.89'
P #3	SET 'X' IN CONCRETE NORTHING - 6,883,949,.90 EASTING - 3,178,496.59 ELEVATION - 367.58'	CP #5	SET 'X' IN CONCRETE NORTHING - 6,883,404.11 EASTING - 3,179,066.16 ELEVATION - 379.79'





GENERAL GRADING NOTES

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

ALL CUT OR FILL SLOPES SHALL BE 4:1 MAXIMUM UNLESS OTHERWISE NOTED. 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 SODDED, 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. EXISTING GRADE CONTOUR INTERVAL SHOWN AT 1 FOOT

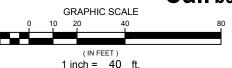
PROPOSED GRADE CONTOUR INTERVAL SHOWN AT 1 FOOT. CONTRACTOR SHALL ADJUST GRADES ADJACENT TO EXISTING PAVEMENT AS

BETWEEN THE REPORT AND THESE NOTES EXIST, THE REPORT IS TO BE FOLLOWED. STRIP AND REMOVE ALL TOPSOIL. CRUSHED GRAVEL. PAVEMENT, AND ANY DELITERIOUS 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

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 8", 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 9" LOOSE LIFTS. COMPACT FILL TO A MINIMUM DENSITY OF 95% STANDARD PROCTOR AT A MOISTURE CONTENT OF ±2% OPTIMUM. AVOID THE USE OF SANDY DR SILTY SOILS IN THE TOP 2' OF THE FINISHED SUBGRADE (SM, SC-SM, SW, SP, ML)





LEGEND

I.F.	TOF OF FAVEIVILINI
TW	TOP OF WALL
Τİ	TOP OF INLET
TG	TOP OF GRATE
SW	SIDEWALK
FG	FINISHED GRADE
TC=340.38	PROPOSED SPOT ELEVATION
— — 335 — —	EXISTING CONTOUR
335	PROPOSED CONTOUR

REFERENCE MARKERS

CP #2 SET 'X' IN CONCRETE

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

	NORTHING - 6,883,386.99 EASTING - 33,178,621.16 ELEVATION - 368.07'		NORTHING - 6,883,977.4 EASTING - 3,179,028.44 ELEVATION - 373.89'
#3	SET 'X' IN CONCRETE NORTHING - 6,883,949,.90 EASTING - 3,178,496.59 ELEVATION - 367.58'	CP #5	SET 'X' IN CONCRETE NORTHING - 6,883,404. EASTING - 3,179,066.16 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 LECTRIC, SOME MAY BE ABANDONED WHILE MANY ARE ACTIVE. EXISTING UTILITIES SHOWN O THE PLANS REPRESENT A DILIGENT EFFORT TO SHOW THEIR APPROXIMATE LOCATION.

HE CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN CONDUCTING EXCAVATION PERATIONS. 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 ITILITY 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

TEXAS ONE CALL SYSTEM

PROPOSED IMPROVEMENT SHOWN ON THE PLANS.

AS REQUIRED BY "THE TEXAS UNDERGROUND FACILITY DAMAGE PREVENTION AND SAFETY ACT" TEXAS ONE CALL SYSTEM MUST BE CONTACTED (800-245-4545) AT LEAST 48 HOURS PRIOR TO ANY EXCAVATION OPERATIONS PERFORMED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO

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 VI "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.

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

SEEDING AND MULCHING NOTE

BOUNDARY INFORMATION SHOWN HEREON.

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 SEEDED 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

CONSTRUCTION.

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

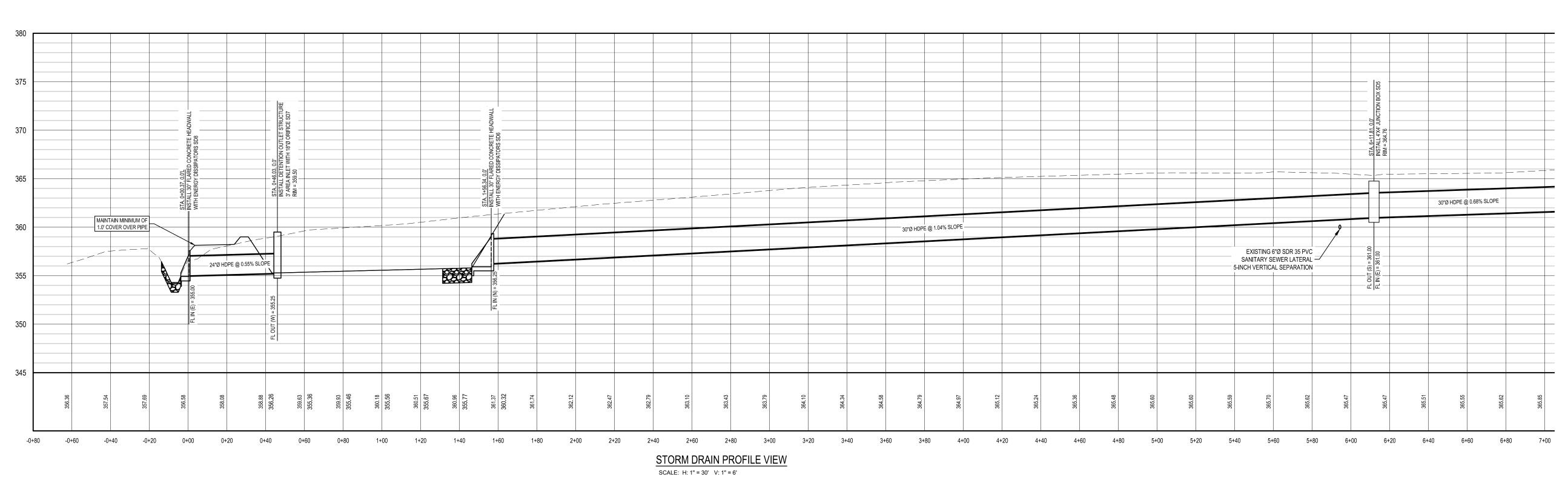
	2695-012		9/9/2025
N BY:	СНЕСКЕВ ВУ:	CHECKED BY: APPROVED BY: SCALE:	SCALE:
MC	BDB	JWH	1"=40'
T NO.:			REVISION NO:
	C5.0		•

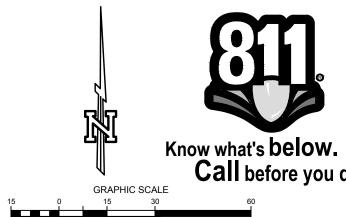
TOP OF CURB TOP OF PAVEMENT



CP #4 SET 'X' IN CONCRETE

SCALE: 1" = 30' STA 6+40.00 TO 13+20.00





DRAINAGE AREA LEGEND

EXISTING CONTOURS TIME OF CONCENTRATION HYDRAULIC LENGTH

1 inch = 30 ft.

SUB-BASIN AREA BOUNDARY PROPOSED STORM SEWER SURFACE DRAINAGE FLOW DIRECTION

WinStorm (STORM DRAIN DESIGN)

Version 3.05, Jan. 25, 2002 Run @ 9/8/2025 8:44:47 AM

PROJECT NAME: HALLSVILLE ISD BOBCAT PARKING JOB NUMBER : 5816-002

PROJECT DESCRIPTION: BOBCAT STADIUM PARKING LOT EXPANSION DESIGN FREQUENCY : 25 Years MEASUREMENT UNITS: ENGLISH

OUTPUT FOR DESIGN FREQUENCY of: 25 Years

Runoff Computation for Design Frequency.

ID	C Value	Area (acre)	Tc (min)	Tc Used (min)	Intensity (in/hr)	Supply Q (cfs)	Tot (c
SD1	0. 93	1.12	10.00	10.00	7.85	0.000	8
SD2	0. 93	1.91	10.00	10.00	7.85	0.000	13
SD3	0. 9	2.53	10.00	10.00	7.85	0.000	17

Sag Inlets Configuration Data.

Inlet	Inlet	Length/	Grate	Left-	Slope	Right	-Slope	Gu	ıtter	Depth	Critic
ID	Туре	Perim. (ft)	Area (sf)	Long (%)	Trans (%)	Long (%)	Trans (%)	n	DeprW (ft)	Allowed (ft)	Elev. (ft)
SD1	Curb	10.00	n/a	0. 50	2. 00	0.50	2.00 0	. 014	1. 50	1. 13	369. 8
SD2	Curb	10.00	n/a	1.60	2.00	1.50	2.00 0	. 013	1.50	1. 13	369.8
SD3	Curb	10.00	n/a	1.60	2.00	1.50	2.00 0	. 013	1.50	1.13	368. 5

Sag Inlets Computation Data.

Inlet ID	Inlet Type	Length	Grate Perim		Total	Q Inle Capaci		Ponded Left	Width Right
ID	Турс	(ft)		(sf)		(cfs)	(ft)	(ft)	(ft)
SD1	Curb	10.00	n/a	n/a	8. 177	34. 85	5 0.428	13. 25	13. 25
SD2	Curb	10.00	n/a	n/a	13. 944	34.85	5 0.611	12.65	12.80
SD3	Curb	10.00	n/a	n/a	17.874	30. 27	8 0.596	13.90	14.05
Node	Node	Weighted	Cumu 1	 at.	Cumulat.	Intens.	 User	Addition	al Total
Node I.D.	Node Type	Weighted C-Value	Cumula Dr. Arc		Cumulat.	Intens.	User Supply Q	Addition	
				ea		Intens. (in/hr)			

(cfs) SD2 Curb 0.930 3.03 10.95 7.85 0.000 0.00 22.121 SD3 Curb 0.916 5.56 11.45 7.85 0.000 SD4 BoxMh 0.916 5.56 11.69 7.85 0.000 0.00 39.995 SD5 JnctBx 0.916 5.56 11.98 7.85 0.000 0.00 39.995 OUT Outlt 0.916 5.56 11.98 7.85 0.000 0.00 39.995

Conveyance Configuration Data

Run#	Node US	I. D. DS	Flowline US (ft)	DS (ft)	Shape #	Span (ft)	Rise (ft)	Length (ft)	Slope (%)	n_value
1	SD1	SD2	364.96	364. 75	Circ 1	0.00	2. 00	184. 00	0. 11	0. 011
2	SD2	SD3	364.72	363.04	Circ 1	0.00	2.00	243.00	0.69	0.011
3	SD3	SD4	363.04	362.09	Circ 1	0.00	2.50	137.00	0.69	0.011
4	SD4	SD5	362.09	361.00	Circ 1	0.00	2.50	160.00	0.68	0.011
5	SD5	OUT	361.00	356. 25	Circ 1	0.00	2. 50	466.00	1.02	0.011

Conveyance Hydraulic Computations. Tailwater = 357.970 (ft)

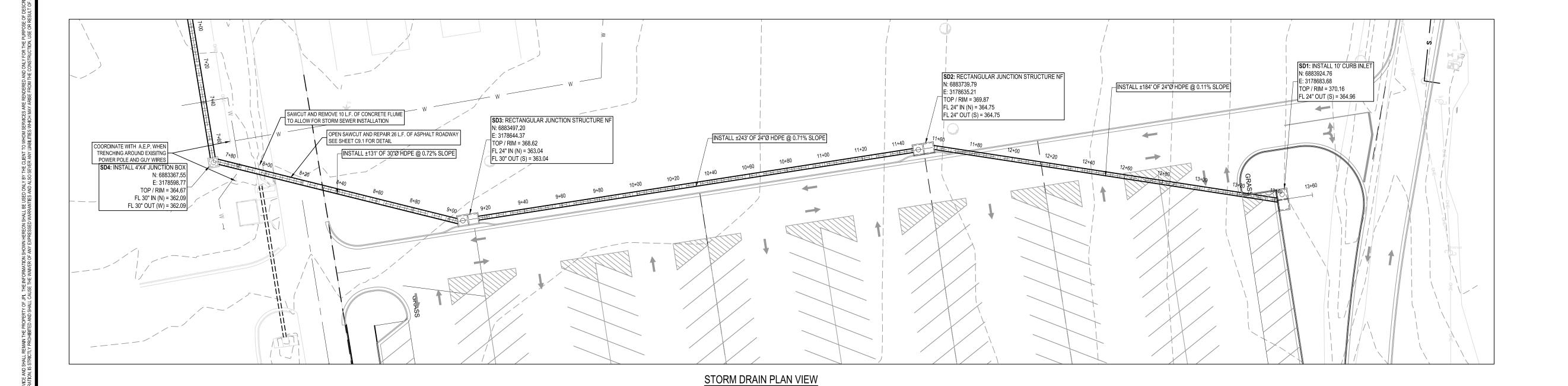
Hydraulic Gradeline Depth Velocity

Run#		DS Elev							Cap	Lo
	(ft) 	(ft)	(%)	(ft)	(ft) 	(1/s)	(1/s)	(cfs)	(cfs)	(1
1	369. 73	369. 56	0.094	1.50	2.00	3. 24	2. 60	8. 18	9.03	0. (
2*	369. 56	367. 51	0.684	1.63	2.00	8.09	7.04	22.12	22.23	0. 3
3*	367. 51	365.96	0.681	2.03	2.50	9.36	8. 15	39.99	40.37	0.6
4*	365.96	364. 25	0.681	2.05	2.50	9. 28	8. 15	39.99	40.02	0.6
5*	364. 25	357. 97	0.681	1.72	1.72	11. 12	11. 11	39.99	48.95	1. 8
			=======	==END=					==	

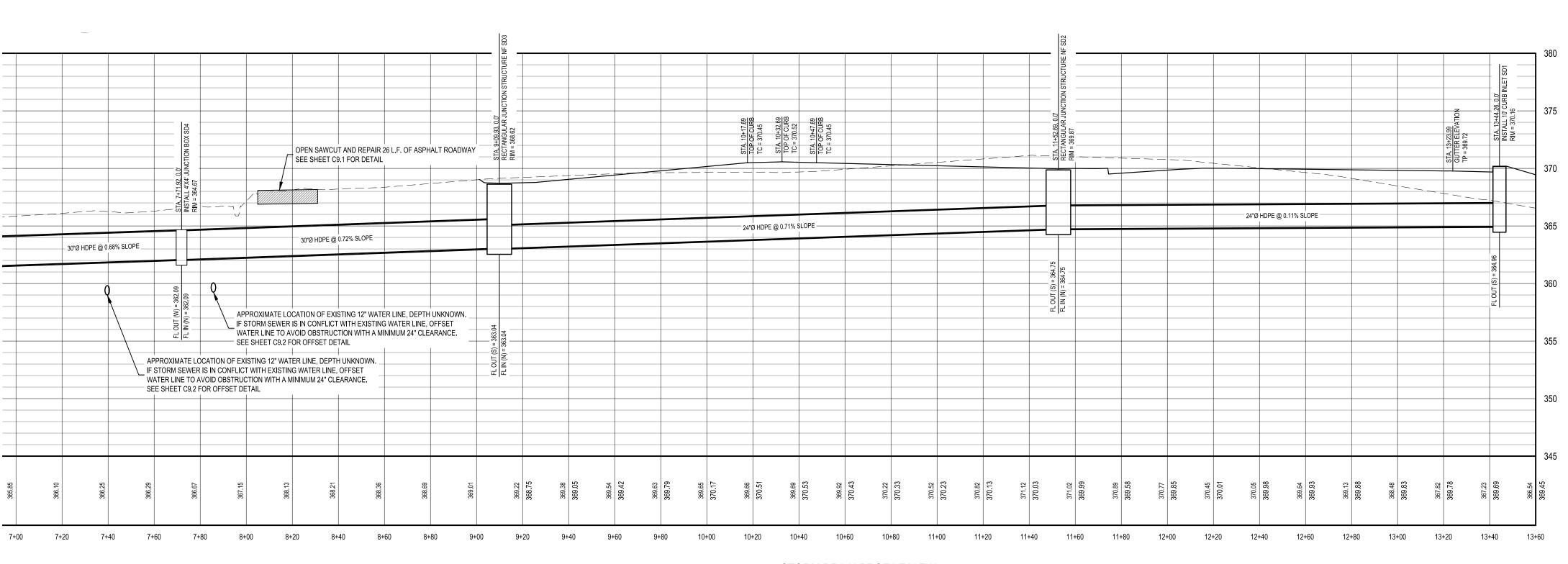
HALLSVILLE I.S.D. BOBCAT STADIUM PARKING LOT EXPANSION HALLSVILLE, TEXAS

	BY DATE				
REVISIONS	DESCRIPTION				
	NO.				

STORM SEWER P&P STA 0+00.00 TO 7+00.00

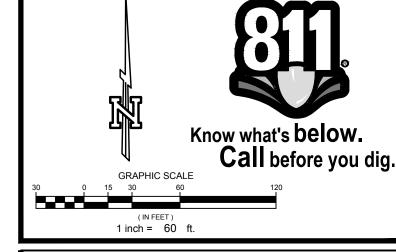


SCALE: 1" = 30' STA 0+00.00 TO 6+40.00



STORM DRAIN PROFILE VIEW

SCALE: H: 1" = 30' V: 1" = 6'



DRAINAGE AREA LEGEND

— — — 370 — — EXISTING CONTOURS

— — 370 — — PROPOSED CONTOURS

TIME OF CONCENTRATION HYDRAULIC LENGTH

SUB-BASIN AREA BOUNDARY

PROPOSED STORM SEWER

SURFACE DRAINAGE FLOW DIRECTION

WinStorm (STORM DRAIN DESIGN)

Version 3.05, Jan. 25, 2002 Run @ 9/8/2025 8:44:47 AM

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JOB NUMBER: 5816-002

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SD1	0. 93	1. 12	10.00	10. 00	7. 85	0. 000	8. 177
SD2	0. 93	1.91	10.00	10.00	7.85	0.000	13.944
SD3	0. 9	2.53	10.00	10.00	7.85	0.000	17.874

Sag Inlets Configuration Data.

Inlet	Inlet	Length/	Grate	Left-	-Slope	Right	-Slope	Gı	utter	Depth	Crit
ID	Туре	Perim.	Area	Long	Trans	Long	Trans	n	DeprW	Allowed	Ele
		(ft)	(sf)	(%)	(%)	(%)	(%)		(ft)	(ft)	(ft
SD1	Curb	10.00	n/a	0. 50	2.00	0.50	2.00	0. 014	1. 50	1. 13	369.
SD2	Curb	10.00	n/a	1.60	2.00	1.50	2.00	0.013	1.50	1. 13	369.
SD3	Curb	10.00	n/a	1.60	2.00	1.50	2.00	0.013	1.50	1.13	368.

Sag Inlets Computation Data.

Inlet ID	Inlet Type	Length	Grat Perim		Total a	Q Inle Capaci		Ponded Left	Width Right
		(ft)	(ft)	(sf)	(cfs)	(cfs)	(ft)	(ft)	(ft)
SD1	Curb	10.00	n/a	n/a	a 8. 177	34.85	5 0.428	13. 25	13. 29
SD2	Curb	10.00	n/a	n/a	a 13.944	34.85	5 0.611	12.65	12. 80
SD3	Curb	10.00	n/a	n/a	a 17.874	30. 27	8 0.596	13.90	14. 0
Cumula	itive Ju	nction Dis	scharge	Con	nputations				
Node	Node	Weighted	Cumu1	at.	Cumulat.	Intens.	User	Addition	al '
I.D.	Туре	C-Value	Dr. Ar	ea	Tc		Supply Q	Q in No	de I
			(acre	(s	(min)	(in/hr)	cfs)	(cfs)	

I.D.	Туре (C-Value	Dr. Area (acres)	Tc (min)	(in/hr)	Supply Q cfs)	Q in Node (cfs)	Di (c
 SD1	Curb	0. 930	1. 12	10. 00	7. 85	0.000	0.00	8.
SD2	Curb	0.930	3.03	10.95	7.85	0.000	0.00	22.
SD3	Curb	0.916	5.56	11.45	7.85	0.000	0.00	39.
SD4	BoxMh	0.916	5. 56	11.69	7.85	0.000	0.00	39.
SD5	JnctBx	0.916	5.56	11. 98	7.85	0.000	0.00	39.
OUT	Out1t	0.916	5. 56	11.98	7.85	0.000	0.00	39.

Conveyance Configuration Data

Run#	Node	I.D.	Flowlin	e Elev.						
	US	DS	US (ft)	DS (ft)	Shape #	(ft)	(ft)	Length (ft)	(%)	_
1	SD1	SD2	364. 96	364. 75	Circ 1		2. 00	184. 00		0. 011
2	SD2	SD3	364.72	363.04	Circ 1	0.00	2.00	243.00	0.69	0.011
3	SD3	SD4	363.04	362.09	Circ 1	0.00	2.50	137.00	0.69	0.011
4	SD4	SD5	362.09	361.00	Circ 1	0.00	2.50	160.00	0.68	0.011
5	SD5	OUT	361.00	356.25	Circ 1	0.00	2.50	466.00	1.02	0.011

Conveyance Hydraulic Computations. Tailwater = 357.970 (ft)

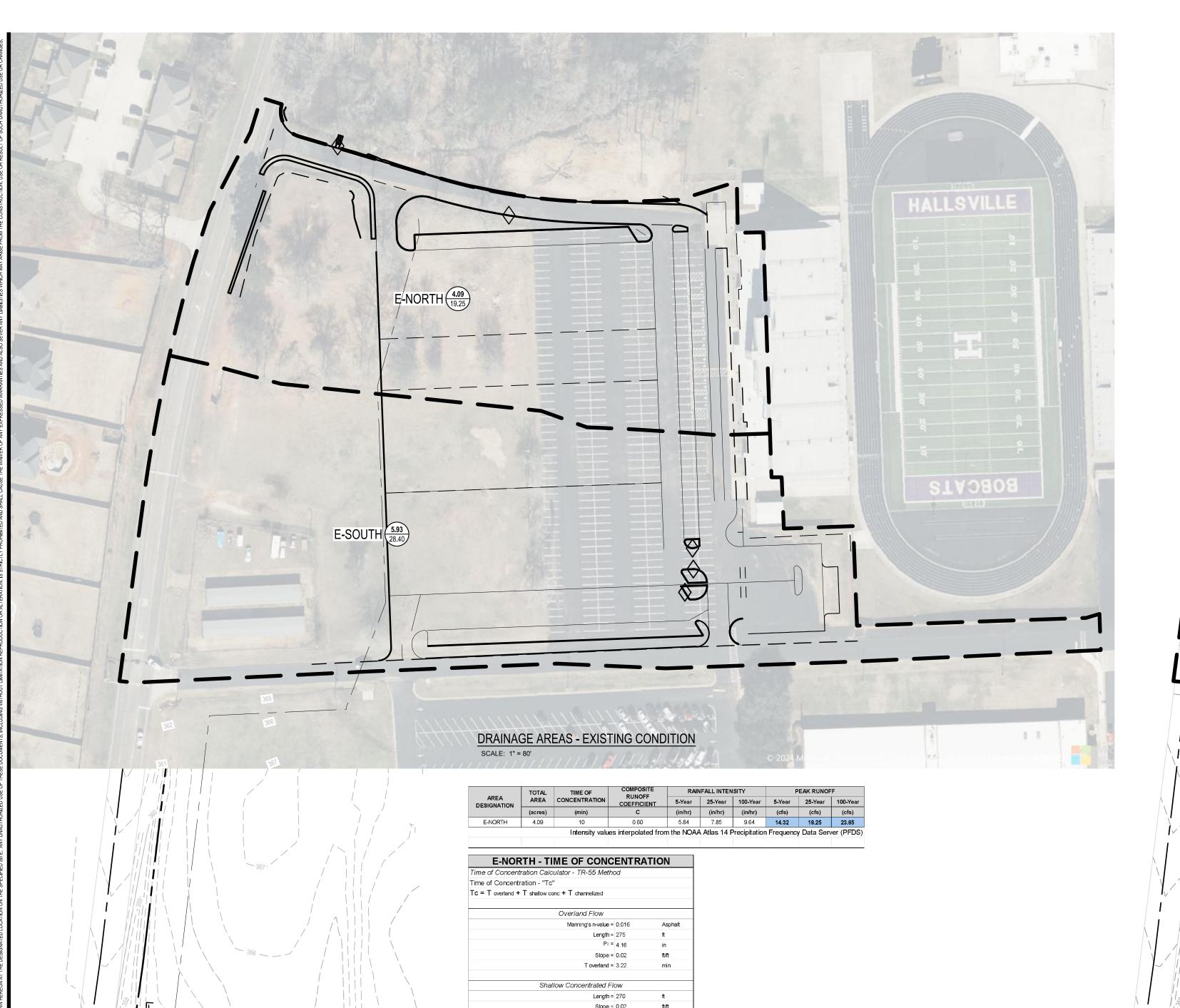
Run#	Hydraulic US Elev		ie Fr. Slope	Dep Unif.			ocity Actual	Q	Cap	June Loss
	(ft)	(ft)	(%)	(ft)	(ft)	(f/s)	(f/s)	(cfs)	(cfs)	(ft)
1	369. 73	369. 56	0.094	1. 50	2.00	3. 24	2. 60	8. 18	9. 03	0. 001
2*	369. 56	367. 51	0.684	1.63	2.00	8.09	7.04	22.12	22.23	0. 385
3*	367.51	365. 96	0.681	2.03	2.50	9.36	8. 15	39.99	40.37	0.619
4*	365. 96	364. 25	0.681	2.05	2.50	9. 28	8. 15	39.99	40.02	0.619
5*	364, 25	357, 97	0.681	1.72	1.72	11 12	11 11	39, 99	48, 95	1, 534

DIUM PANSION

HALLSVILLE I.S.D. BOBCAT STADIUM PARKING LOT EXPANSIC

	BY DATE				
					_
REVISIONS	DESCRIPTION				
	NO.				

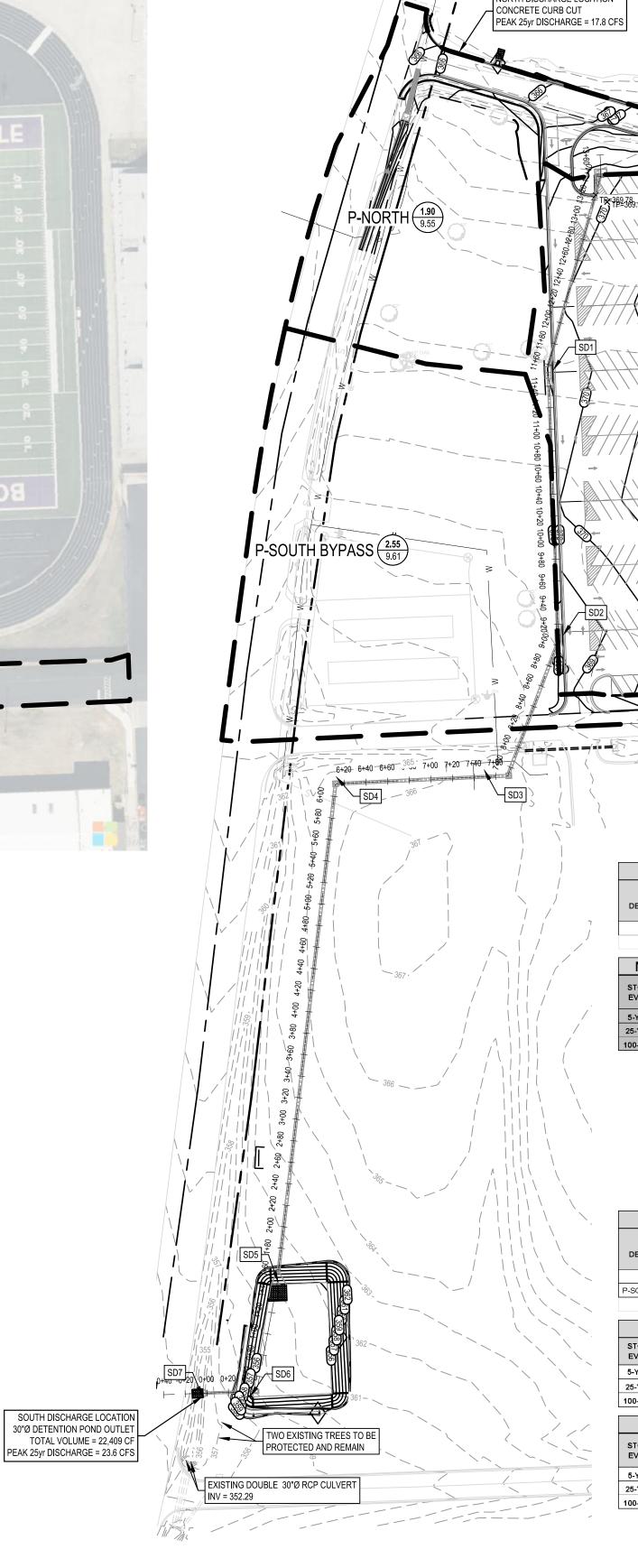
	2695-012		9/9/2025
DRAWN BY:	снескер ву:	CHECKED BY: APPROVED BY: SCALE:	SCALE:
BDB	BDB	JWH	1"=40'
SHEET NO.:			REVISION NO:
	C6.1		•

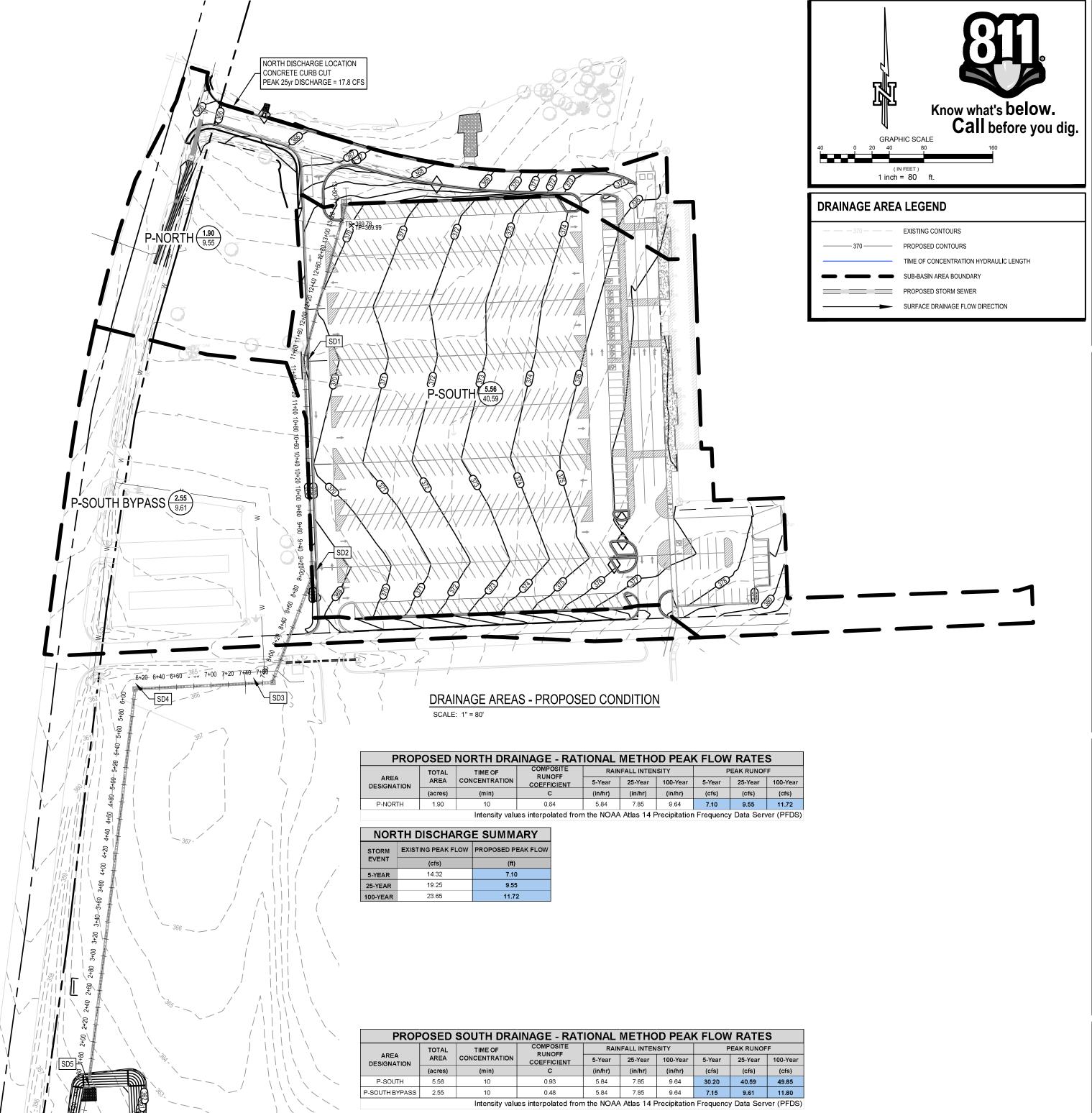


E-NORTH - TIME OF CONC	ENTRATIO	NC
Time of Concentration Calculator - TR-55 Metho	od	
Time of Concentration - "Tc"		
Tc = T overland + T shallow conc + T channelized		
Overland Flow		
Manning's n-value =	0.016	Asphall
Length =	275	ft
P2 =	4.16	in
Slope =	0.02	ft/ft
T overland =	3.22	min
Shallow Concentrated Fl	OW	
Length =	270	ft
Slope =	0.02	ft/ft
Avg Velocity PAVED =	0.000	ft/sec
Avg Velocity UNPAVED=	2.281	f/sec
T shallow conc =	1.97	min
Channelized Flow		
Length =	167	ft
Avg Velocity (ft/sec) =	5.0	ft/sec
T channelized =	0.56	min

EXIS	TING S	SOUTH DRAI	NAGE - RATI	ONAL N	1ETHOI	D PEAK	FLOW	RATES	
	TOTAL	TIME OF	COMPOSITE RUNOFF	RAIN	IFALL INTEN	SITY	P	EAK RUNOF	F
AREA DESIGNATION	AREA	CONCENTRATION	COEFFICIENT	5-Year	25-Year	100-Year	5-Year	25-Year	100-Year
	(acres)	(min)	С	(in/hr)	(in/hr)	(in/hr)	(cfs)	(cfs)	(cfs)
E-SOUTH	5.93	10	0.61	5.84	7.85	9.64	21.13	28.40	34.87
		Intensity valu	es interpolated fron	n the NOAA	Atlas 14 F	Precipitation	requency	/ Data Serv	er (PFDS)

mimum Tc = 10 min	Tc =	10.0	min
	i Gianielized -	0.07	111111
	T channelized =		min
	Avg Velocity (ft/sec) =		ft/sec
	Length =	163	ff
	Channelized Flow		
	T shallow conc =	4.7 1	min
	Avg Velocity UNPAVED=		f/sec
	Avg Velocity PAVED =		ft/sec
	Slope =		ft/ft
	Length =		ft
Shal	low Concentrated Fl		
01			
	T overland =	2.39	min
	Slope =	0.05	ft/ft
	P2 =	4.16	in
	Length =		ft
	Manning's n-value =	0.016	Asph
	Overland Flow		
Tc = T overland + T shallow co	onc + T channelized		
Fime of Concentration - "Tc			
Time of Concentration Calc		od	
E-SOUTH - TI	ME OF CONC	ENTRATIO	NC

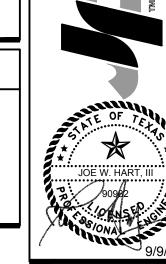




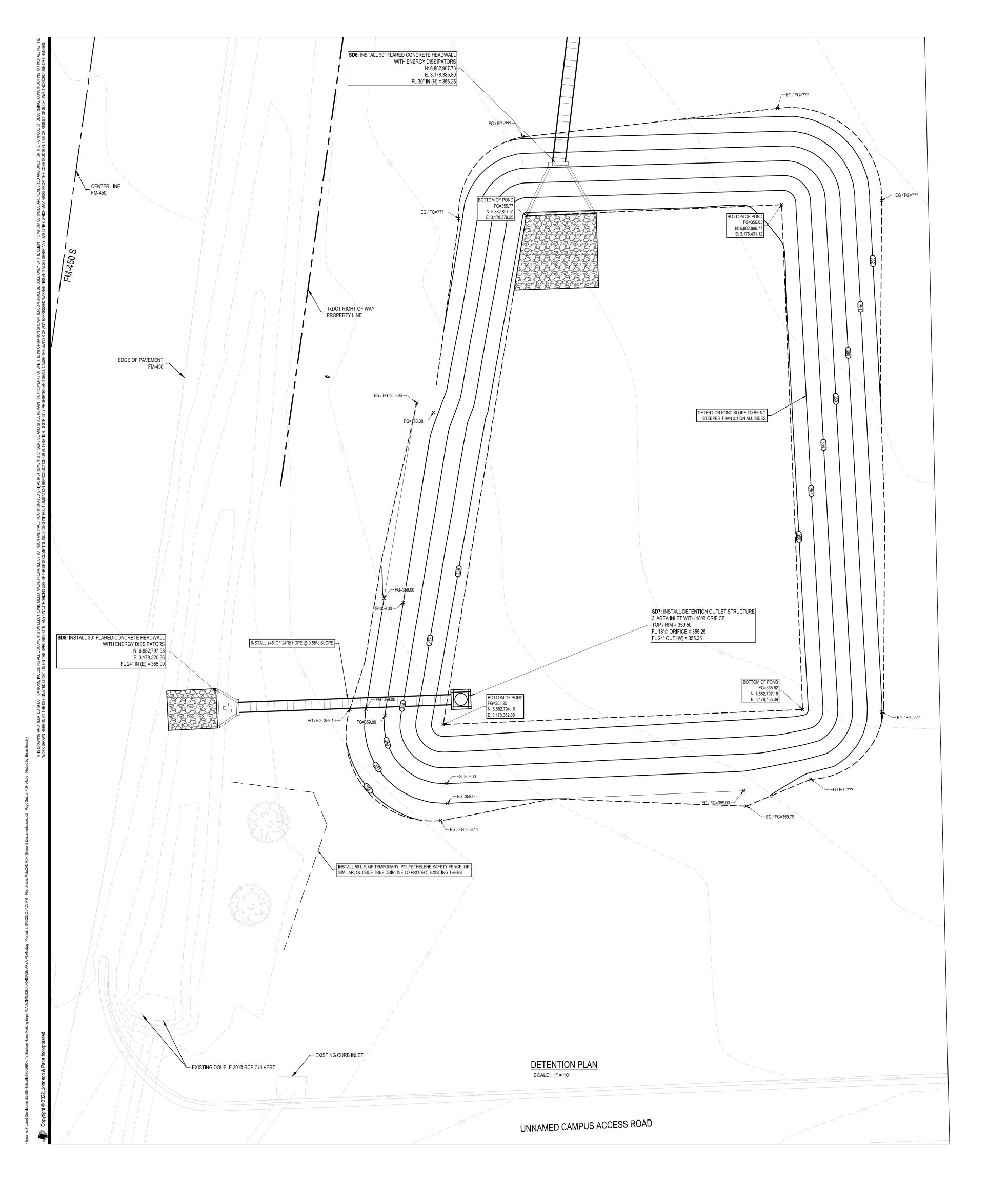
P-SOUTH BYPAS		E 6	10 Intensity value		_{0.48} polated from	5.84 n the NOAA	7.85 Atlas 14
ALL	OWARI I	= C		es inter	polated from	the NOAA	Atlas 14
ALL	OWARI I	= G					
			SOUTH PON	D DI	SCHAR	3E	1
STORM	E-SOUTH	-	P-SOUTH BYPAS		ALLOWABLE		<u> </u>
EVENT	(cfs)		(cfs)		(c	fs)	
5-YEAR	21.13	-	7.15	=	13	.98	
25-YEAR	28.40	-	9.61	=	18	.79	
100-YEAR	34.87	-	11.80	=	23	.07	

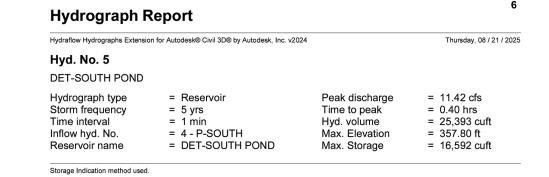
SOUTH POND DISCHARGE SUMMARY								
STORW	PEAK FLOW INTO POND	PEAK W.S.E.L.	PEAK FLOW DISCHARGE	ALLOWABLE DISCHARGE				
EVENT	(cfs)	(ft)	(cfs)	(cfs)				
5-YEAR	30.20	357.80	11.42	13.98				
25-YEAR	40.59	358.38	13.13	18.79				
100-YEAR	49.85	358.82	19.99	23.07				

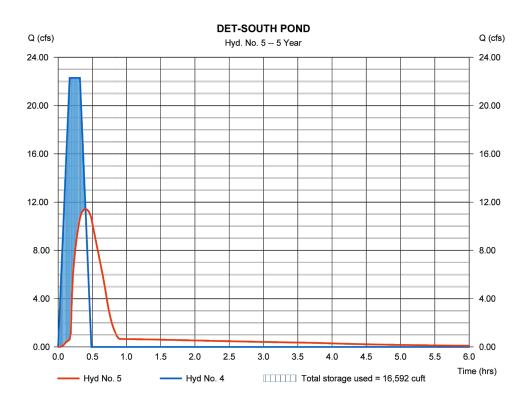
COPORATED INCORPORATED



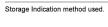
HALLSVILLE I.S.D. BOBCAT STADIUM PARKING LOT EXPANSION HALLSVILLE, TEXAS

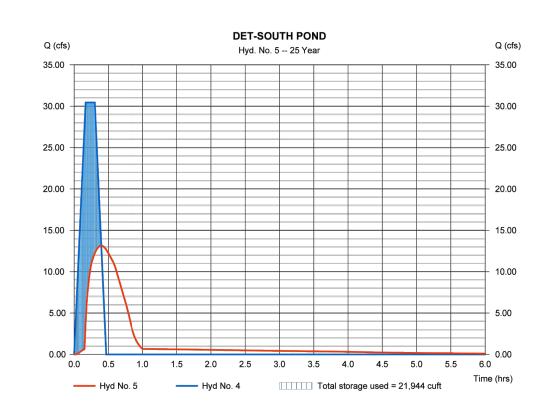




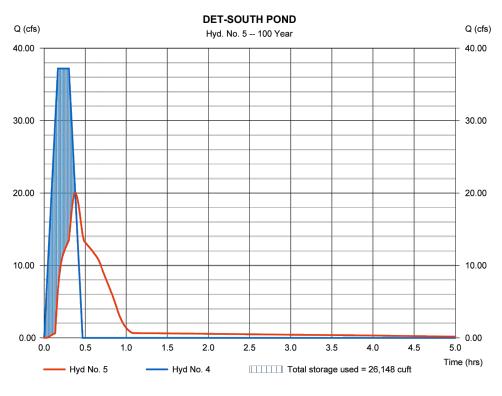


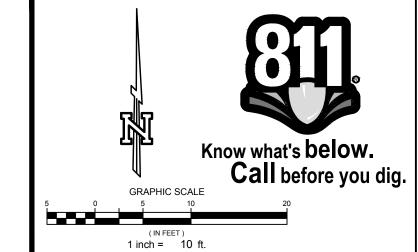
Hydraflow Hydrographs Extensi	on for Autodesk® Civil 3D® by Autodesk, Inc. v20	024	Thursday, 08 / 21 / 202
Hyd. No. 5			
DET-SOUTH POND			
Hydrograph type Storm frequency	= Reservoir = 25 yrs	Peak discharge Time to peak	= 13.13 cfs = 0.40 hrs
Time interval	= 1 min	Hyd. volume	= 32,855 cuft
Inflow hyd. No. Reservoir name	= 4 - P-SOUTH = DET-SOUTH POND	Max. Elevation Max. Storage	= 358.38 ft = 21,944 cuft

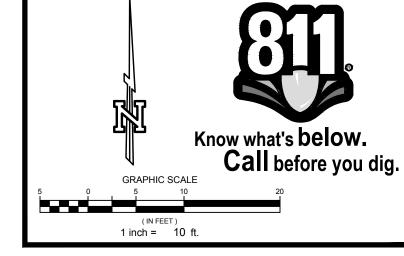


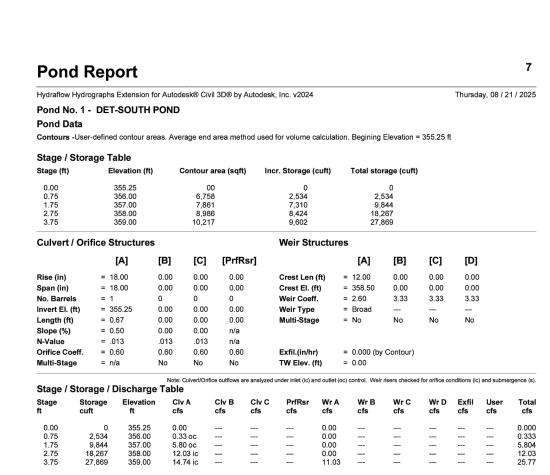


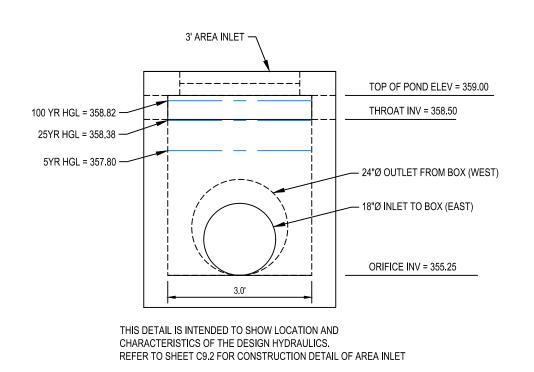
Hydraflow Hydrographs Extensi	on for Autodesk® Civil 3D® by Autodesk, Inc. v20	024	Thursday, 08 / 21
Hyd. No. 5			
DET-SOUTH POND			
Hydrograph type Storm frequency Time interval Inflow hyd. No. Reservoir name	= Reservoir = 100 yrs = 1 min = 4 - P-SOUTH = DET-SOUTH POND	Peak discharge Time to peak Hyd. volume Max. Elevation Max. Storage	= 19.99 cfs = 0.38 hrs = 40,145 cuft = 358.82 ft = 26,148 cuft











DETENTION OUTLET DETAIL

Culvert Calculator Report 2695-012 Det Outlet Pipe

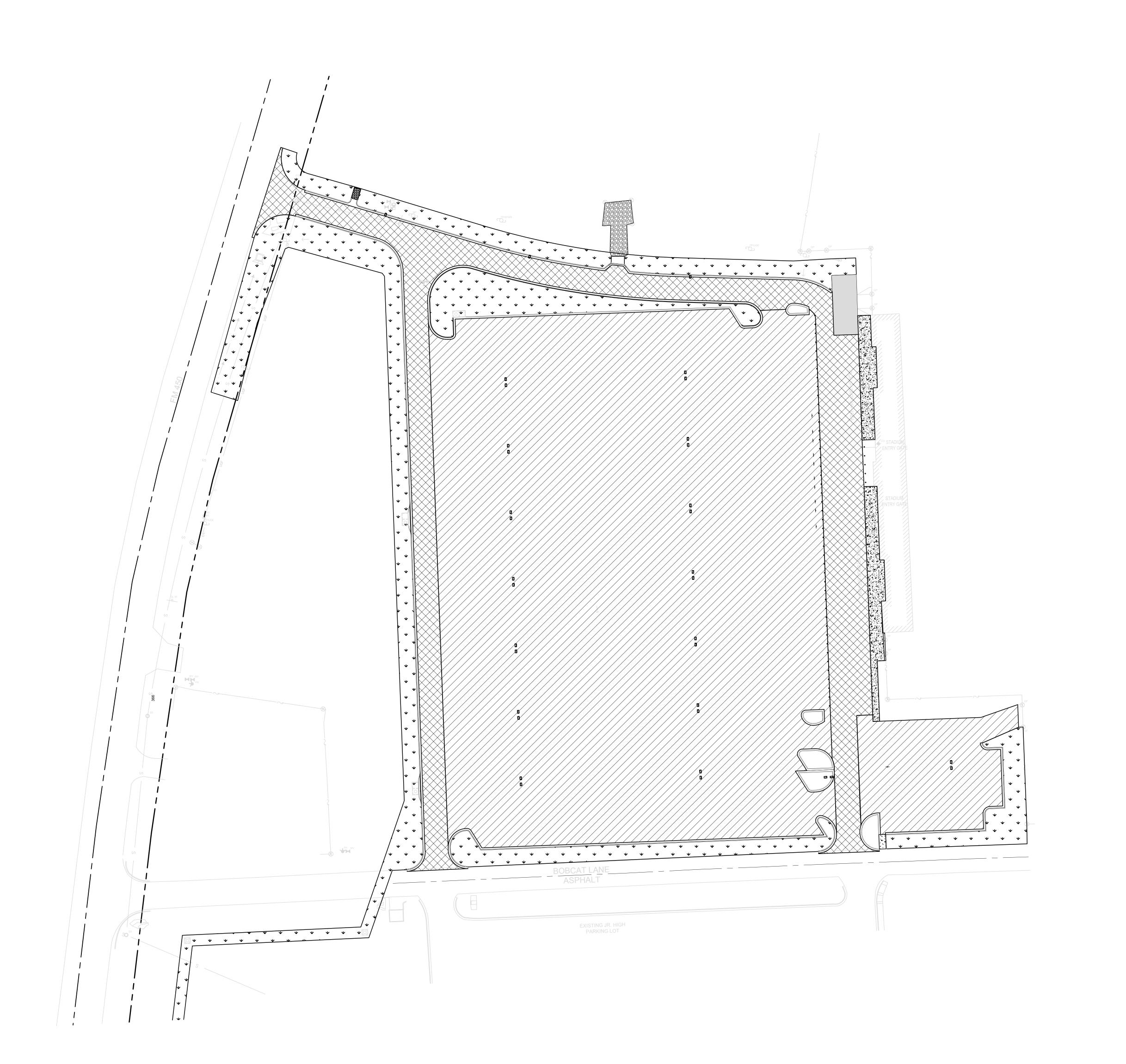
Culvert Summary					
Allowable HW Elevation	3.75	ft	Headwater Depth/Height	1.47	
Computed Headwater Eleva	ation 358.20	ft	Discharge	19.99	cfs
Inlet Control HW Elev.	358.20	ft	Tailwater Elevation	355.00	ft
Outlet Control HW Elev.	358.10	ft	Control Type	Inlet Control	
Grades					
Upstream Invert	355.25	ft	Downstream Invert	355.00	ft
Length	46.00	ft	Constructed Slope	0.005435	ft/ft
Hydraulic Profile					
Profile	M2	,	Depth, Downstream	1.61	ft
Slope Type	Mild		Normal Depth	N/A	ft
Flow Regime	Subcritical		Critical Depth	1.61	ft
Velocity Downstream	7.39	ft/s	Critical Slope	0.006914	ft/ft
Section					
Section Shape	Circular		Mannings Coefficient	0.012	
Section Mater@orrugated H	DPE (Smooth Interior)		Span	2.00	ft
Section Size	24 inch		Rise	2.00	ft
Number Sections	1				
Outlet Control Properties		*			
Outlet Control HW Elev.	358.10	ft	Upstream Velocity Head	0.71	
<e td="" €<=""><td>0.50</td><td></td><td>Entrance Loss</td><td>0.36</td><td>ft</td></e>	0.50		Entrance Loss	0.36	ft
nlet Control Properties					
Inlet Control HW Elev.	358.20	ft	Flow Control	Submerged	
Inlet Type Sq	uare edge w/headwall		Area Full	3.1	ft²
K	0.00980		HDS 5 Chart	1	
М	2.00000		HDS 5 Scale	1	
_	0.00000		Equation Form	1	
С	0.03980 0.67000		Equation Form	1	



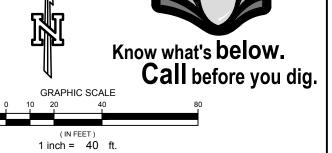
HALLSVILLE I.S.D.
BOBCAT STADIUM
PARKING LOT EXPANSION
HALLSVILLE, TEXAS

	DATE				
	ВУ				
REVISIONS	DESCRIPTION				
	NO.				

	2695-012		9/9/2025
AWN BY:	СНЕСКЕВ ВҮ:	CHECKED BY: APPROVED BY: SCALE:	SCALE:
BDB	BDB	JWH	1"=40'
EET NO.:			REVISION NO:
	C7.1		•







PAVEMENT HATCH LEGEND

CONCRETE SIDEWALK SEE SHEET C9.1 FOR DETAILS
LIGHT DUTY CONCRETE PAVEMENT SEE SHEET C9.1 FOR DETAILS
MEDIUM DUTY CONCRETE PAVEMENT SEE SHEET C9.1 FOR DETAILS
HEAVY DUTY CONCRETE PAVEMENT SEE SHEET C9.1 FOR DETAILS

PAVEMENT NOTES

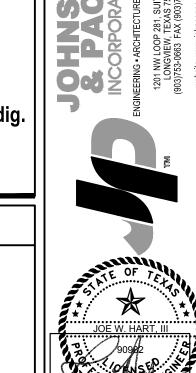
THE CONCRETE MIX SHOULD CONTAIN 4.5% - 6.0% ENTRAINED AIR FOR DURABILITY. THE MAXIMUM AGGREGATE SIZE SHOULD BE NO GREATER THAN $\frac{1}{3}$ THE THICKNESS OF THE SLAB. ALLOW A MINIMUM OF 7 DAYS (IN WARM WEATHER, LONGER IN COLD WEATHER) CURING TIME BEFORE PERMITTING LIGHT TRAFFIC ON THE PAVEMENT

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 5.0 FEET.

PAVEMENT THICKNESS TABLE						
TRAFFIC	THICKNESS (IN.)	MAX JOINT SPACING (FT.)				
LIGHT DUTY	5.0	12.0				
MEDIUM DUTY	6.0	13.0				
HEAVY DUTY	7.0	15.0				

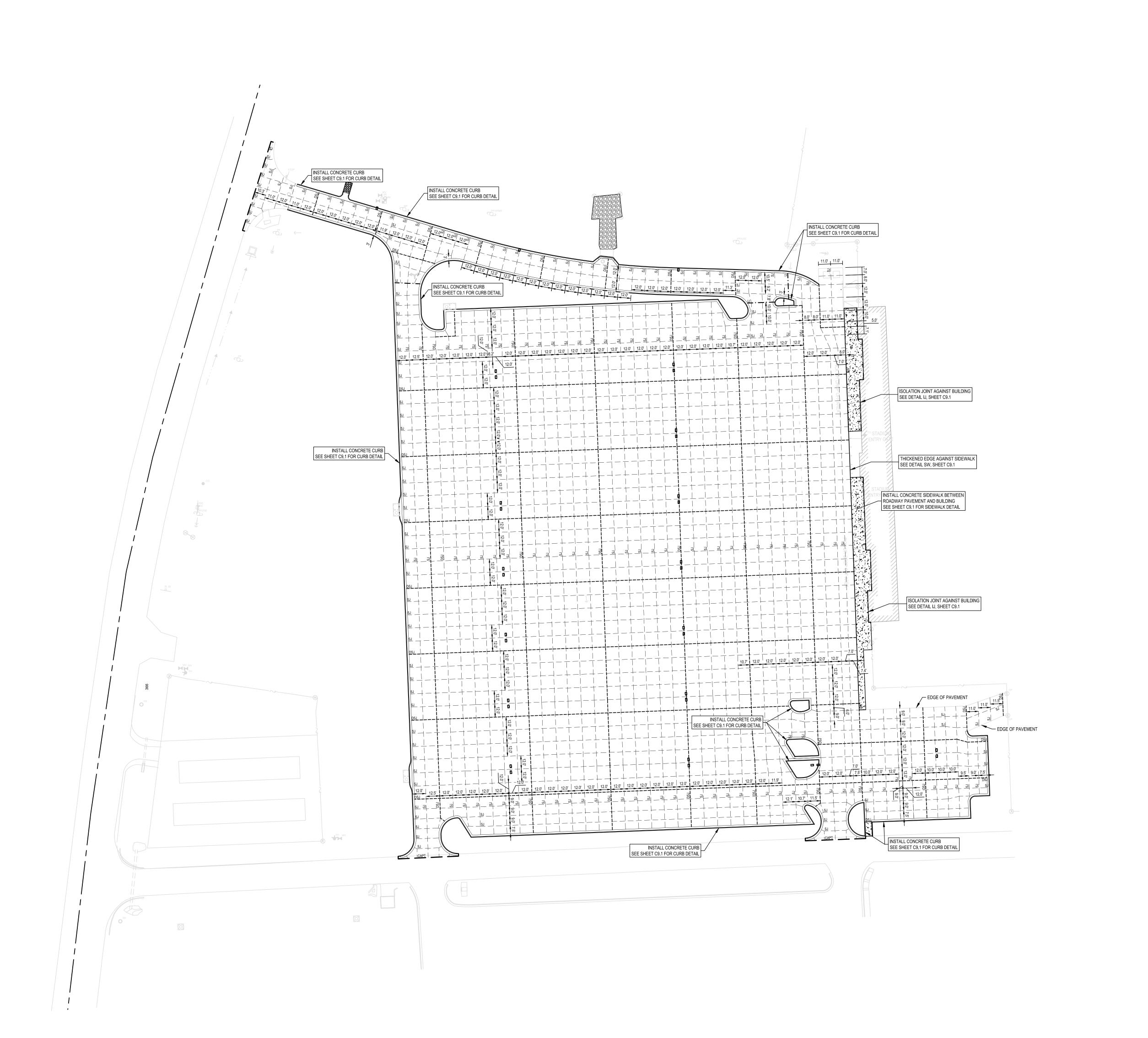
PAVEMENT QUANTITIES

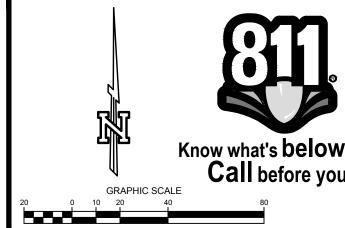
PAVEMENT TYPE	AREA (SQUARE YARDS)	
SIDEWALK FLATWORK	420	
LIGHT DUTY CONCRETE	19,667	
MEDIUM DUTY CONCRETE	4,503	
HEAVY DUTY CONCRETE	133	
	•	



	DATE				
	ВУ				
REVISIONS	DESCRIPTION				
	NO.				

	2695-012		9/9/2025
DRAWN BY:	СНЕСКЕВ ВУ:	CHECKED BY: APPROVED BY: SCALE:	SCALE:
BDB	BDB	JWH	1"=40'
SHEET NO.:			REVISION NO:
	C8.0		•





JOINTING LEGEND

______ SW THICKENED EDGE AGAINT SIDEWALK
_____ SJ SAW JOINT

1 inch = 40 ft.

-·-·- IJ ISOLATION JOINT W/ THICKENED EDGE

PROVIDE FIXED STRUCTURE ISOLATION JOINTS WHERE CONCRETE PAVEMENT IS ADJACENT TO STRUCTURES, INCLUDING BUT NOT LIMITED TO: BUILDINGS, LIGHT POLE BASES, INLET

REFER TO SHEET C9.1 FOR CONCRETE JOINT DETAILS, NOTES, AND SPECIFICATIONS

GENERAL CONCRETE PAVING JOINT NOTES

1. CONTRACTION JOINTS SHALL BE CREATED WHILE THE CONCRETE IS STILL PLASTIC BY USING A GROOVING TOOL, BY INSERTING A PRE-MOLDED FILLER STRIP, OR BY SAW CUTTING INTO THE CONCRETE WIRHIN 12 HOURS AFTER CONCRETE IS POURED

2. THE CONTRACTION JOINT PATTERN SHALL DIVIDE THE PAVEMENT INTO PANELS THAT ARE APPROXIMATELY SQUARE, THE LENGTH OF EACH PANEL MAY NOT EXCEED THE WIDTH BY MORE THAN 25 PERCENT.

. MAXIMUM JOINT SPACING IS SHOWN IN THE FOLLOWING TABLE. IF THE VALUES SHOWN

CANNOT BE ACHIEVED, THE ABSOLUTE MAXIMUM SPACING IS NO MORE THAN 30 TIMES THE THICKNESS OF THE SLAB, NOT TO EXCEED 15 FEET, UNLESS NOTED OTHERWISE.

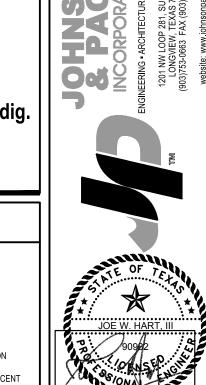
CONCRETE THICKNESS (INCHES)	MAXIMUM JOINT SPACING (FEET)
3.5	7.0
4.0	9.0
4.5	10.0
5.0	12.0
5.5	12.5
6.0	13.0
OVER 6.0	15.0
E TRANSVERSE CONSTRUCTION JOINTS A	DE NEEDED THEY CHALL BE INCTALLED

- IF TRANSVERSE CONSTRUCTION JOINTS ARE NEEDED, THEY SHALL BE INSTALLED AT
 CONTRACTION JOINT LOCATIONS WHEN POSSIBLE.
 JOINT FILLER FOR ISOLATION JOINTS SHALL EXTEND THROUGH THE SLAB THICKNESS TO
 THE SUBGRADE AND SHALL BE RECESSED BELOW THE PAVEMENT SURFACE SO THAT THE
- JOINT CAN BE SEALED WITH JOINT SEALANT MATERIAL.

 6. RECOMMENDED JOINT FILLER MATERIALS INCLUDES BITUMINOUS MASTIC, BITUMINOUS IMPREGNATED CELLULOSE, CORK, SPONGE RUBBER, OR RESIN-BOUND CORK AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS.

 7. DISTRIBUTED STEEL REINFORCEMENT SHALL BE INSTALLED 2" TO 2-1/2" BELOW THE TOP OF
- SLAB AND SHALL BE HELD IN POSITION BY USING CHAIRS OR PRECAST CONCRETE BLOCKS.

 8. CONTRACTOR IS HEREBY PUT ON NOTICE THAT ANY AREAS OF NEW CONCRETE PAVEMENT OR SIDEWALK THAT EXPERIENCES RANDOM CRACKING (I.E. NOT CRACKED ALONG A JOINT LINE) SHALL BE REMOVED AND REPLACED. THE ENTIRE PANEL IN WHICH THE RANDOM CRACKING OCCURS SHALL BE REMOVED AND REPLACED.



JOE W HART, III

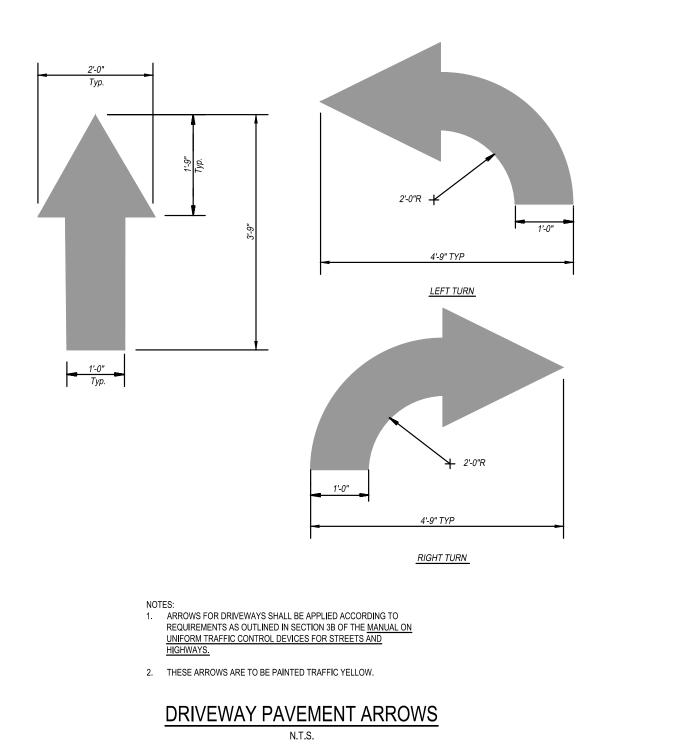
POPPL

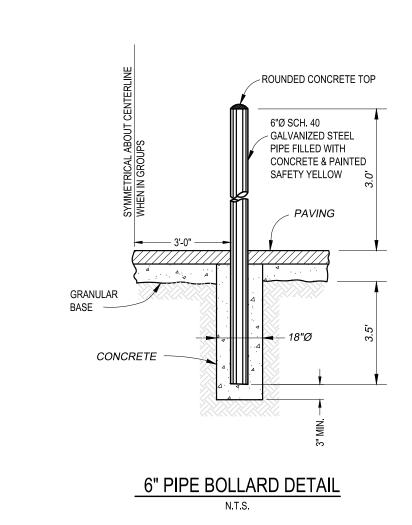
BOBCAT STADIUM
PARKING LOT EXPANSI
HALLSVILLE, TEXAS

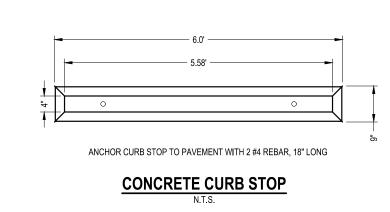
NO. DESCRIPTION BY DATE

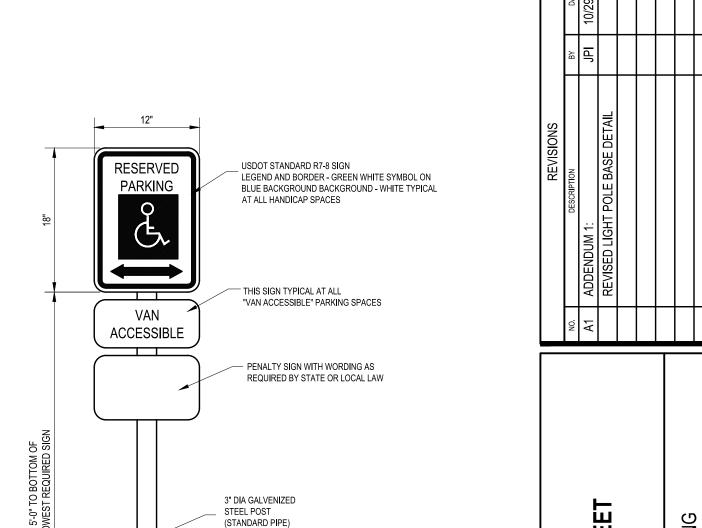
2695-012
SHECKED BY: SOALE:
BDB JWH 1"=40'
REVISION NO:

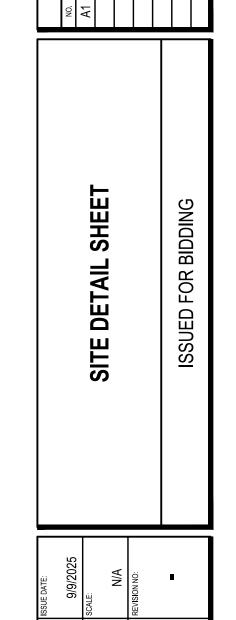
REFLECTIVE TRAFFIC PAINT THAT CONTRAST THE PAVEMENT (SEE SPECS.) OR PER CITY



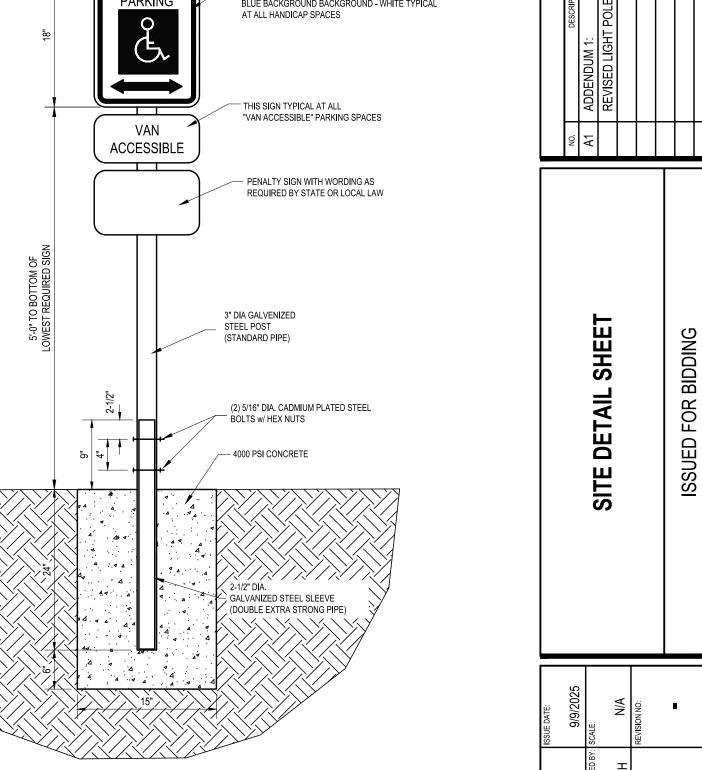


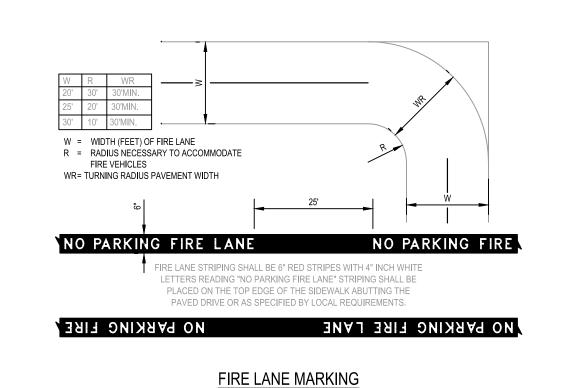


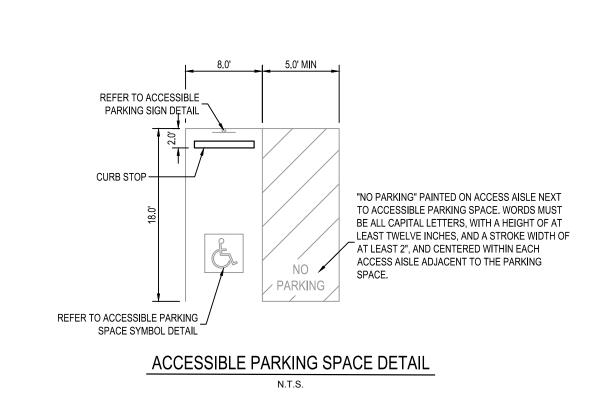




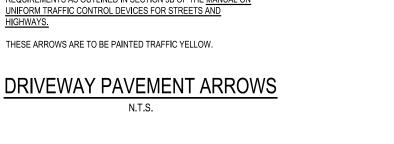
HALLSVILLE I.S.D. BOBCAT STADIUM PARKING LOT EXPANSION







ACCESSIBLE PARKING SPACE SYMBOL



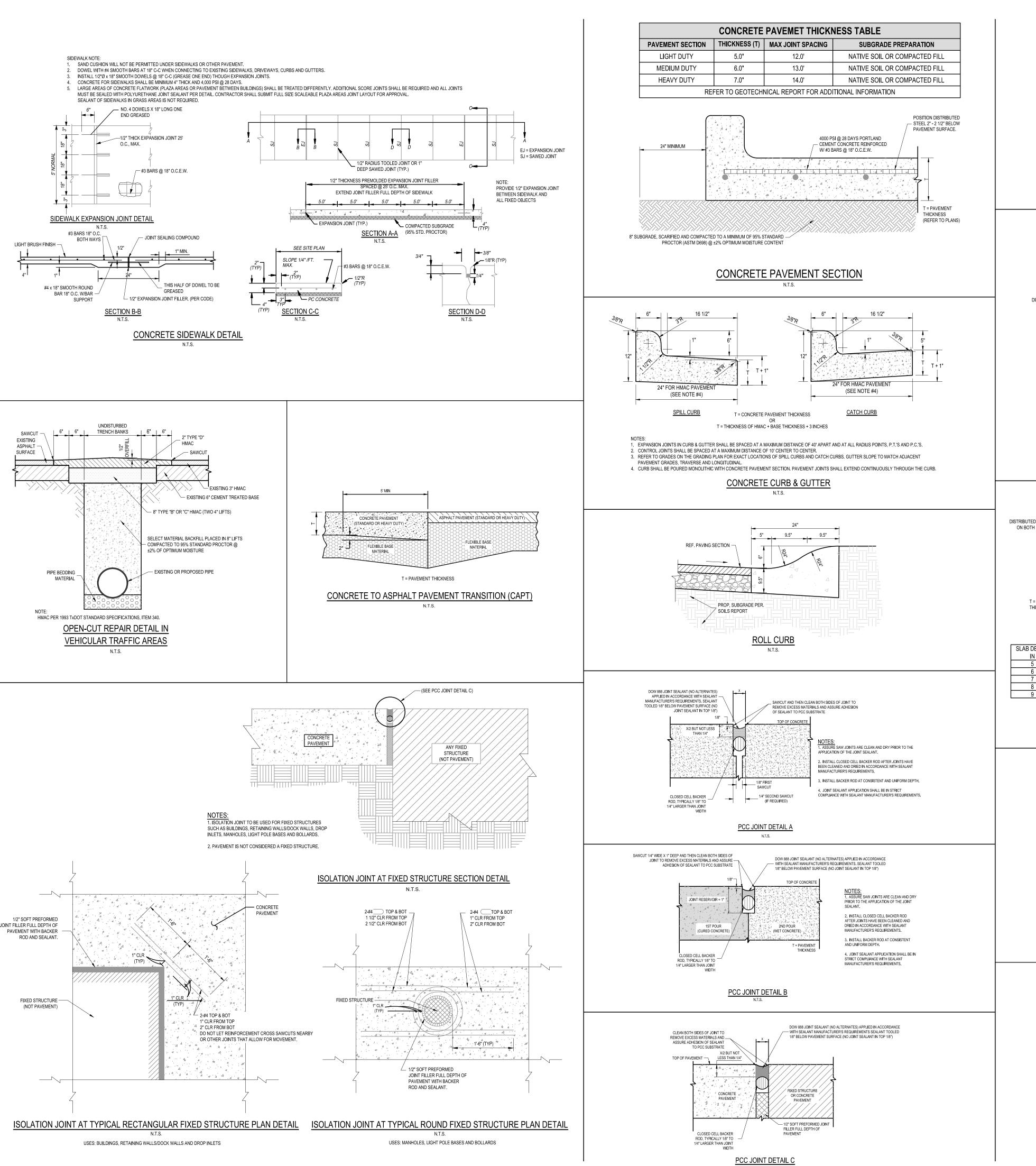
ONE AT EACH HANDICAP SPACE. WHERE HANDICAP SPACES FACE EACH OTHER WITHOUT WALKWAY, THERE SHALL BE ONE POST

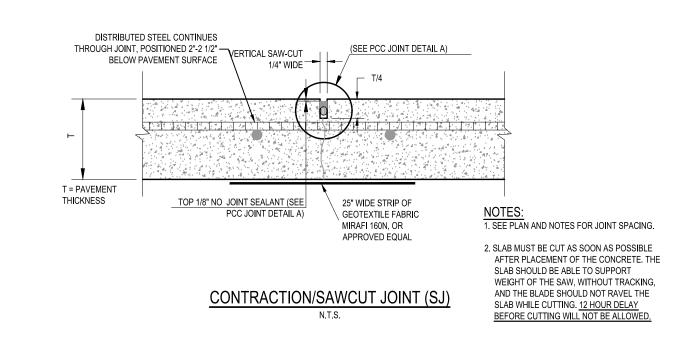
THIS IS A STANDARD SIGN AND MAY BE ORDERED FROM ANY TRAFFIC SIGN SUPPLIER BY NUMBER. THE ARROW SHOULD BE OMITTED

WHERE THERE IS ONLY ONE SPACE. THE ARROW MAY ALSO BE MADE TO POINT IN ONLY ONE DIRECTION. THE ARROW MAY ALSO BE REPLACED BY "TIME" SUCH AS 9 AM - 5 PM WHERE A PART-TIME RESTRICTION EXISTS. THE SIGN MUST BE SUPPLEMENTED WITH A "VAN ACCESSIBLE" SIGN AS APPLICABLE AND/OR AMOUNT OF THE FINE FOR ILLEGALLY PARKING IN THE RESERVED SPACE(S) A

WITH SIGNS MOUNTED BOTH SIDES

MUNICIPALITY MAY IMPOSE. CONFIRM WITH LOCAL REGULATIONS.



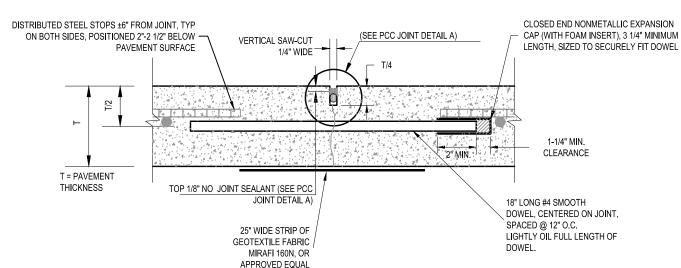


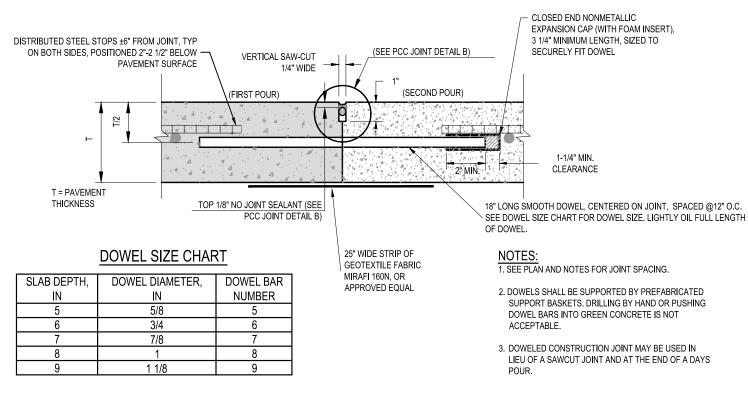
NOTES:

1. SEE PLAN AND NOTES FOR JOINT SPACING.

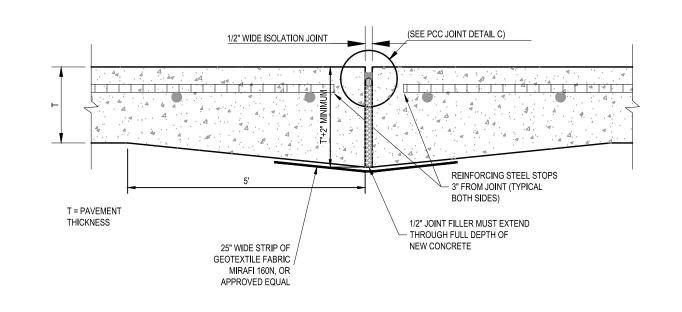
2. DOWELS SHALL BE SUPPORTED BY PREFABRICATED SUPPORT BASKETS.

3. SLAB MUST BE CUT AS SOON AS POSSIBLE AFTER PLACEMENT OF THE CONCRETE. THE SLAB SHOULD BE ABLE TO SUPPORT WEIGHT OF THE SAW, WITHOUT TRACKING, AND THE BLADE SHOULD NOT RAVEL THE SLAB WHILE CUTTING. 12 HOUR DELAY BEFORE CUTTING WILL NOT BE ALLOWED.

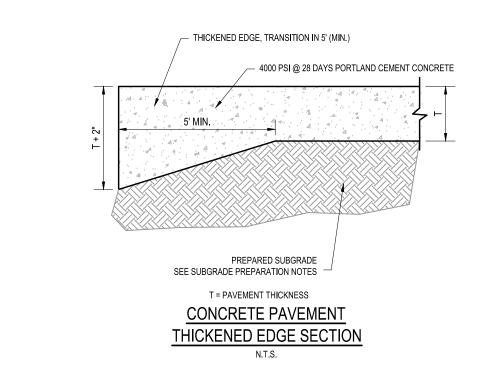




DOWELED CONSTRUCTION JOINT (DCJ)



ISOLATION JOINT (IJ) - WITH THICKENED EDGE



GENERAL CONCRETE NOTES

- CONCRETE SHALL HAVE NATURAL SAND FINE AGGREGATE AND NORMAL WEIGHT COURSE AGGREGATES CONFORMING TO ASTM C33. TYPE I PORTLAND CEMENT SHALL BE USED CONFORMING TO ASTM C150. THE MIX SHOULD CONTAIN 4.5% - 6.0% ENTRAINED AIR FOR
- DURABILITY. THE MAXIMUM AGGREGATE SIZE SHOULD BE NO GREATER THAN 1/3 THE THICKNESS OF THE SLAB. INSTALLED CONCRETE SHALL HAVE A COMPRESSIVE STRENGTH (Fc°) OF 4000 PSI AT 28 DAYS. UNLESS NOTED OTHERWISE DETAILING OF CONCRETE REINFORCING BARS AND ACCESSORIES SHALL CONFORM TO
- THE RECOMMENDATIONS OF ACI315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT" AND ACI SP-66 "DETAILING MANUAL". PLACING OF REINFORCING BARS SHALL CONFORM TO THE RECOMMENDATIONS OF ACI 315R "MANUAL OF ENGINEERING AND PLACING DRAWINGS FOR REINFORCED CONCRETE STRUCTURES" AND CRSI "MANUAL OF STANDARD PRACTICE".
- MIXING, TRANSPORTING AND PLACING CONCRETE SHALL CONFORM TO ACI 301. CONCRETE REINFORCEMENT BARS SHALL CONFORM TO ASTM A615, GRADE 60. NO. 3 BARS MAY CONFORM TO ASTM 615 GRADE 40 UNI ESS NOTED OTHERWISE REINFORCMENT BARS SHALL NOT BE TACK WELDED, WELDED, HEATED OR CUT UNLESS INDICATED ON THE CONTRACT DOCUMENTS OR REVIEWED BY THE STRUCTURAL ENGINEER.
- REINFORCEMENT DESIGNATED AS "CONTINUOUS" SHALL LAP 30 BAR DIAMETERS AT SPLICES UNLESS NOTED OTHERWISE. PROVIDE STANDARD ACI HOOKS FOR TOP & BOTTOM BARS AT DISCONTINUOUS ENDS OF ALL GRADE BEAMS. OBSERVE HOT & COLD WEATHER CONCRETING PRACTICES RECOMMENDED ON ACI 305
- AND 306 RESPECTIVELY FOR EXTREME TEMPERATURES. FORMWORK SHALL COMPLY WITH ACI 347, "RECOMMENDED PRACTICE FOR CONCRETE
- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH ACI-318. ALL EXPOSED EDGES OF CONCRETE SHALL HAVE A 3/4 INCH, 45 DEGREE CHAMFER.
- WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, FLAT MATS ONLY. REFER TO JOB SPICIFICATIONS FOR ADDITIONAL REQUIREMENTS.

GENERAL PAVING NOTES

- SAND IS PROHIBITED FOR USE AS A LEVELING COURSE FOR SUBGRADE GRADING.. FINE GRADING SHALL BE PERFORMED WITH SELECT FILL. SUBGRADE SHALL BE LIGHTLY MOISTENED AS NEEDED AND RE-COMPACTED TO OBTAIN A TIGHT SUBGRADE PRIOR TO
- SUBGRADE MOISTURE CONTENT AND DENSITY MUST BE MAINTAINED UNTIL PAVING IS
- PROOF ROLLING OF SUBGRADE AND BASE SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL JURISDICTIONAL REQUIREMENTS

GENERAL GRADING NOTES

- 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
- ALL CUT OR FILL SLOPES SHALL BE NO STEEPER THAN 4:1 SLOPE UNLESS OTHERWISE
- 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 SODDED. 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. EXISTING GRADE CONTOUR INTERVAL SHOWN AT 1 FOOT
- PROPOSED GRADE CONTOUR INTERVAL SHOWN AT 1 FOOT.
- CONTRACTOR SHALL ADJUST GRADES ADJACENT TO EXISTING PAVEMENT AS NECESSARY TO ASSURE A SMOOTH FIT AND CONTINUOUS GRADE.

PAVEMENT SUBGRADE PREPARATION NOTES

SUBGRADE MATERIAL SHOULD CONSIST OF HOMOGENEOUS SOILS FREE OF ORGANIC MATTER ND ROCKS LARGER THAN SIX (6) INCHES IN DIAMETER. SCARIFY THE NATIVE SOIL AND FILL AS EEDED IN MAXIMUM EIGHT (8) INCH LOOSE LAYER LIFTS. COMPACT TO A MINIMUM OF 95% STANDARD PROCTOR @ ±2% OPTIMUM MOISTURE . DENSITY TESTING SHOULD BE PERFORMED AT A RATE OF ONE TEST PER EVERY 5,000 SF OF AREA WITH A MINIMUM OF 2 TESTS PER LIFT.

DURING WET PERIODS OF THE YEAR ESPECIALLY, THE NATIVE SUBGRADE, AND AREAS WHERE CUTS INTO THE NATIVE SUBGRADE, MAY BECOME UNSTABLE. THIS WILL NECESSITATE PECIALIZED CONSTRUCTION PROCEDURES TO BE ABLE TO ACHIEVE ADEQUATE COMPACTION OF FILL. THE MOST APPROPRIATE METHOD TO ACHIEVE STABILITY IS BEST DETERMINED BASED ON AN EVALUATION OF THE CONDITIONS BY THE GEOTECHNICAL ENGINEER OF RECORD AT THE ME OF CONSTRUCTION. BY WAY OF GENERAL GUIDANCE, AVOID THE USE OF SOILS THAT CLASSIFY AS SM, SC-SM, SW, SP OR ML IN THE UPPER 2' OF THE FINISHED SUBGRADE.

PORTLAND CEMENT CONCRETE NOTE

HE PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE AIR ENTRAINED TO RESULT IN A 5% LUS/MINUS 1% AIR, SHALL HAVE A MAXIMUM SLUMP OF 5 INCHES, A WATER TO CEMENT RATIO OF 0.45, AND SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI. A LIQUID EMBRANE-FORMING CURING COMPOUND SHOULD BE APPLIED AS SOON AS PRACTICAL AFTER BROOM FINISHING THE CONCRETE SURFACE.

THE CONCRETE PAVEMENT SHALL BE JOINTED PER THE SITE SPECIFIC DETAILS, NOTES, PLANS AND SPECIFICATIONS.

GENERAL CONCRETE PAVING JOINT NOTES

- CONTRACTION JOINTS SHALL BE CREATED WHILE THE CONCRETE IS STILL PLASTIC BY USING A GROOVING TOOL OR BY INSERTING A PREMOLDED FILLER STRIP, OR A GROOVE CAN BE SAW CUT INTO THE CONCRETE WITHIN 12 HOURS AFTER CONCRETE IS POURED.
- THE CONTRACTION JOINT PATTERN SHALL DIVIDE THE PAVEMENT INTO PANELS THAT ARE APPROXIMATELY SQUARE. THE LENGTH OF A PANEL MAY
- BE 25 PERCENT GREATER THAN THE WIDTH.

MAXIMUM SPACING SHALL BE ABOUT 30 TIMES THE THICKNESS OF THE SLAB UP TO A MAXIMUM OF 15 FEET, U.N.O. (SEE CHART BELOW).

CONCRETE THICKNESS (INCHES)	MAXIMUM JOINT SPACING (FEET)
3.5	7.0
4.0	9.0
4.5	10.0
5.0	12.0
5.5	12.5
6.0	13.0
01/55.00	4.50

WHEN TRANSVERSE CONSTRUCTION JOINTS ARE NEEDED, THEY SHALL BE INSTALLED AT CONTRACTION JOINT LOCATIONS IF POSSIBLE.

THE JOINT FILLER FOR ISOLATION JOINTS SHALL EXTEND THROUGH THE SLAB THICKNESS TO THE SUBGRADE AND SHALL BE RECESSED BELOW THE PAVEMENT SURFACE SO THAT THE JOINT CAN BE SEALED WITH JOINT

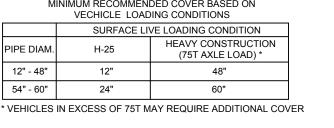
RECOMMENDED JOINT FILLER MATERIALS INCLUDE BITUMINOUS MASTIC. BITUMINOUS IMPREGNATED CELLULOSE OR CORK, SPONGE RUBBER, OR RESIN-BOUND CORK, AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER RECOMMENDATIONS.

DISTRIBUTED STEEL REINFORCEMENT SHALL BE INSTALLED 2" to 2 1/2" BELOW THE TOP OF SLAB AND SHALL BE HELD IN POSITION BY USING CHAIRS OR PRECAST CONCRETE BLOCKS.



O HALL BOBC RKING

ISSUED FOR I



2" - 48"	12"	48"						
4" - 60"	60"							
HICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COV								
TABLE 2								

	TABLE 2						
REC	RECOMMENDED MINIMUM TRENCH WIDTH						
	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"					

NOTES FOR TYPICAL HDPE STORM DRAIN:

1. 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 ADDITION.

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. <u>FOUNDATION:</u> 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.

4. <u>BEDDING:</u> 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. 5. <u>INITIAL BACKFILL AND HAUNCH:</u> 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. 6. <u>MINIMUM COVER</u>: 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 FLOTATION. 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.)

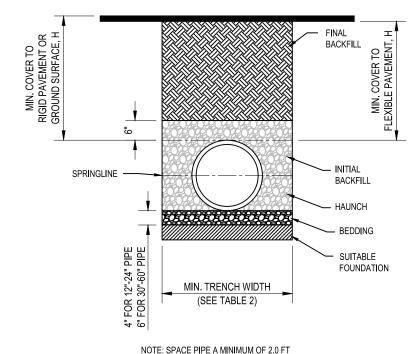
CLASS II - (GW, GP, SW, SP GW-GC, SP-SM) CLEAN, COARSE GRADED GRAINED MATERIALS, SUCH AS GRAVEL, COARSE SANDS AND GRAVEL/ SAND MIXTURES (1 1/2 INCHES MAXIMUM SIZE.)

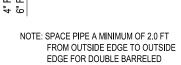
CLASS III - (GM, GC, SM, SC) COARSE GRAINED MATERIALS WITH FINES INCLUDING SILTY OR CLAYEY GRAVELS OR SANDS. GRAVEL OR SAND MUST COMPRISE MORE THAN 50 PERCENT OF CLASS III MATERIALS (1 1/2 INCHES MAXIMUM SIZE)

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

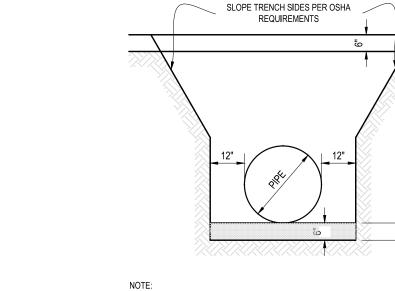
CLASS V - (OL, OH, PT) THESE MATERIALS INCLUDE ORGANIC SILTS AND CLAYS, PEAT AND OTHER ORGANIC MATERIALS. THEY ARE NOT RECOMMENDED FOR EMBEDMENT MATERIALS

NOTE: EMBEDMENT MATERIALS SHOULD BE PLACED AND COMPACTED AT OPTIMUM MOISTURE CONTENT.





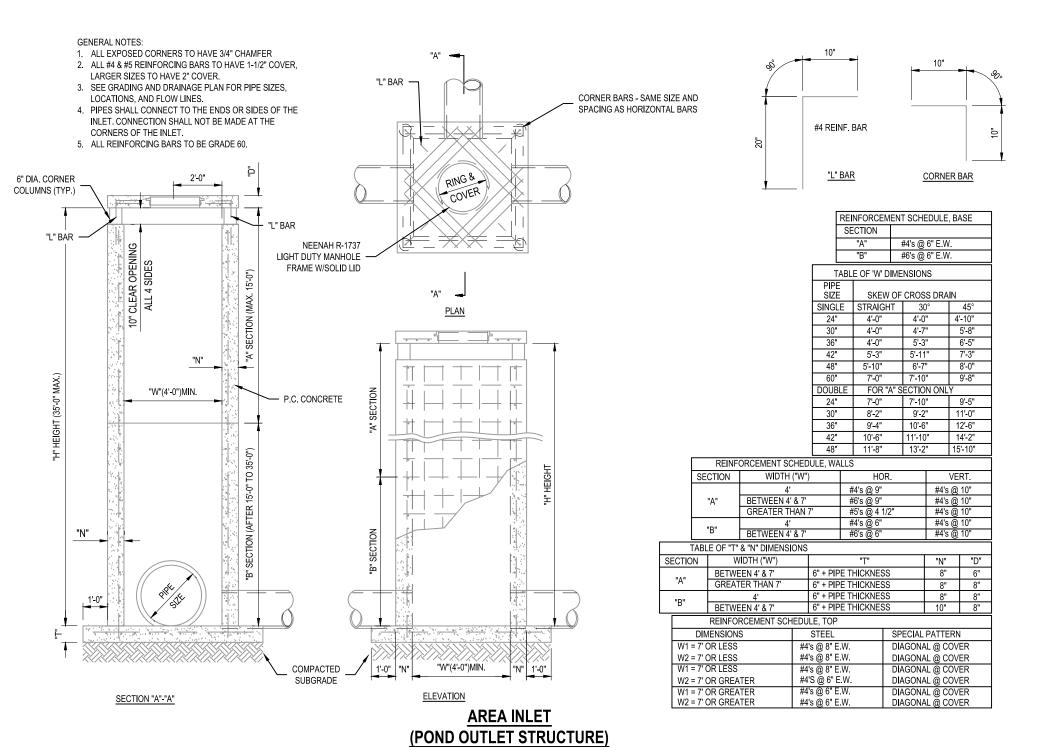
APPLICATIONS.

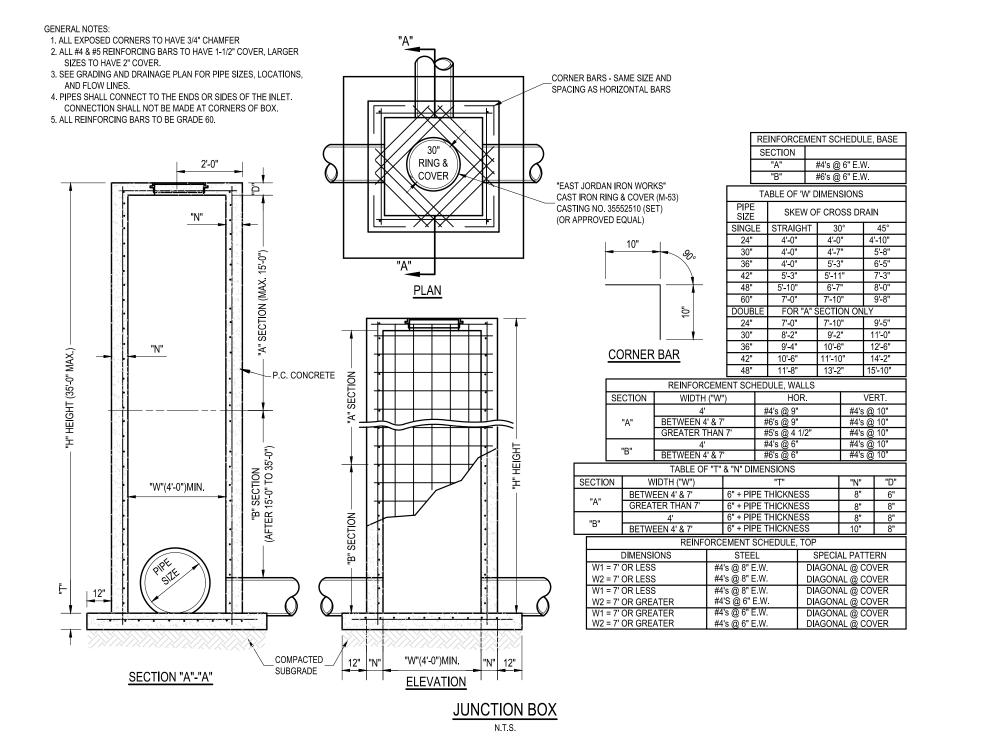


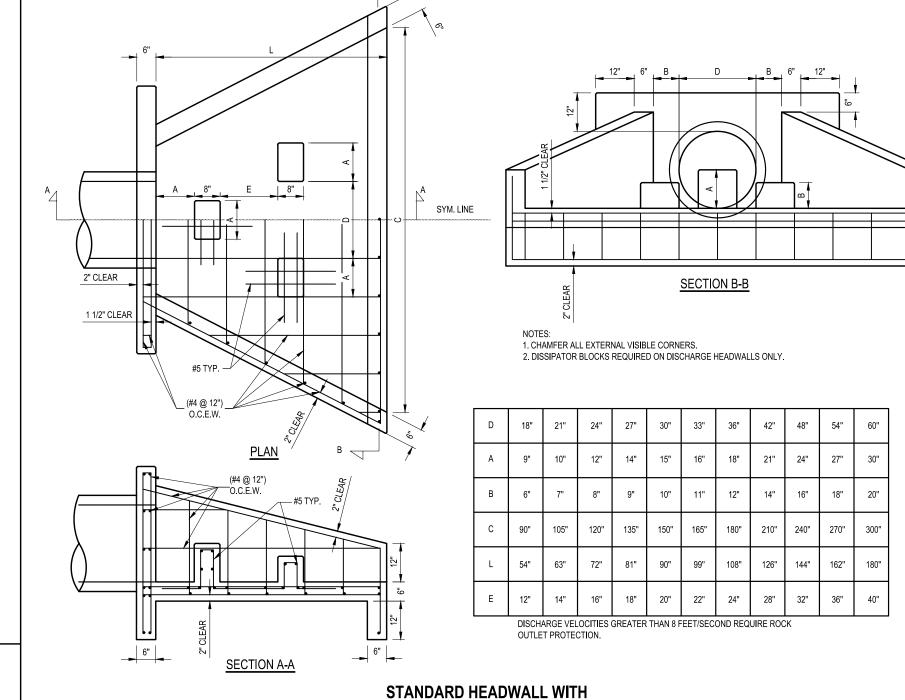
1. BEDDING SHALL BE CLEAN SAND OR GRAVEL (3/4" MAX.) 2. SELECT FILL SHALL BE PLACED IN 8 INCH LOOSE LIFTS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

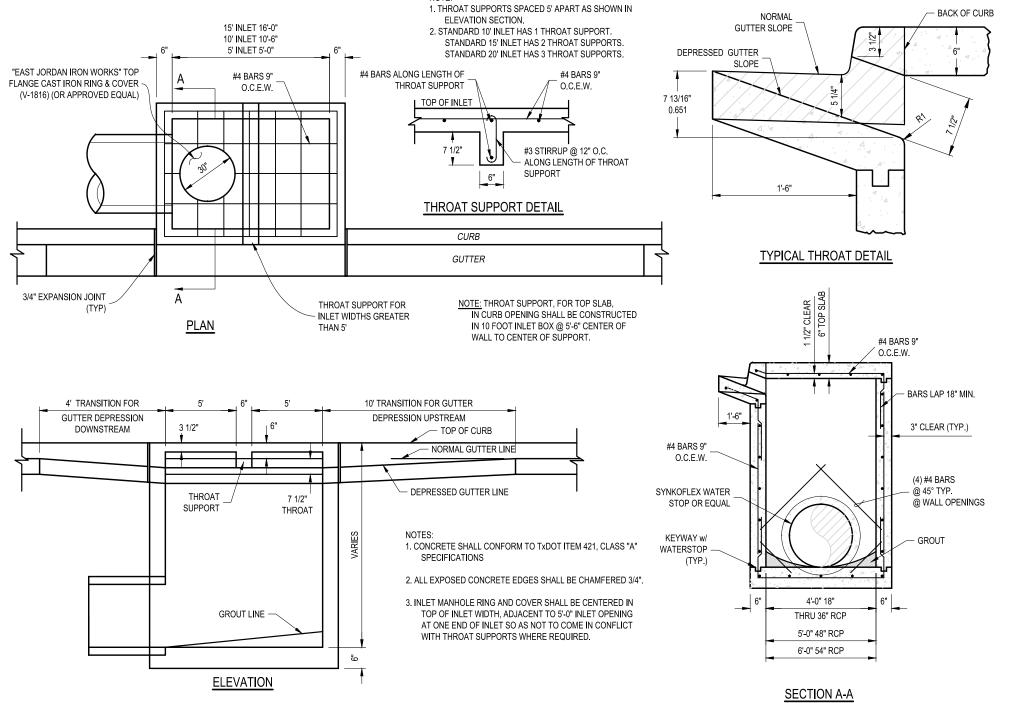
TRENCH AND BEDDING DETAIL FOR RCP

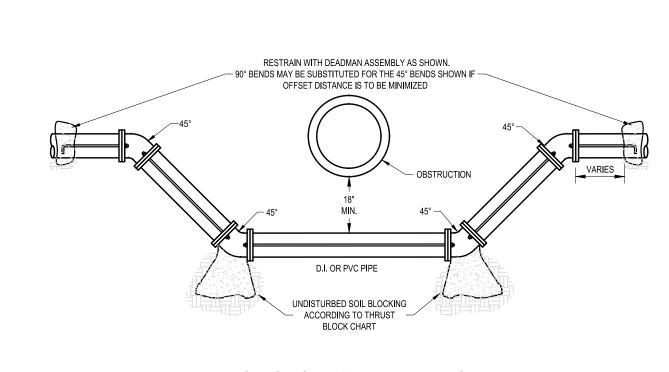
TRENCH AND BEDDING DETAIL FOR TYPICAL HDPE STORM DRAIN



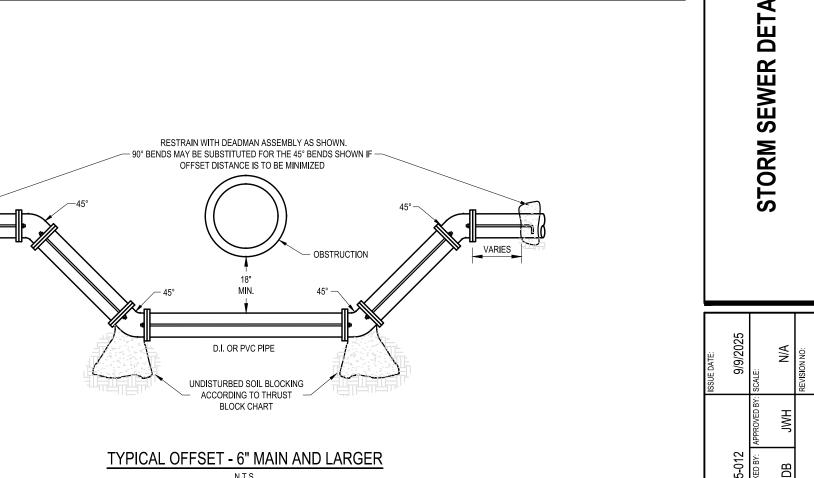








DISSIPATORS



CURB INLET DETAILS

ELECT	RICAL ABBREVIATI	ONS			
Α	AMPERES	G	GROUND	NO	NORMALLY OPEN, NUMBER
AFF	ABOVE FINISHED FLOOR	GA	GAUGE	NTS	NOT TO SCALE
AIC	AMPERES INTERRUPTING	GFI/GFCI	GROUND FAULT INTERRUPTER	OD	OUTSIDE DIAMETER
	CAPACITY	HDG	HOT DIPPED GALVANIZED	Р	POLE
AL	ALUMINUM	HP	HORSEPOWER	P&I	PROVIDE AND INSTALL
AMPS	AMPERES	HZ	HERTZ	PH	PHASE
С	CONDUIT	ID	INTERNAL DIAMETER	PR	PAIR SHIELDED CABLE
СВ	CIRCUIT BREAKER	IG	ISOLATED GROUND	PVC	POLYVINYL CHLORIDE CONDUIT
СРВ	CONCRETE PULL BOX	JB, J	JUNCTION BOX	SS	STAINLESS STEEL
CS	COMBINATION STARTER	KVA	KILOVOLT-AMPERE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
СТ	CURRENT TRANSFORMER	KW	KILOWATT	UNO	UNLESS NOTED
CTC C/C	CENTER TO CENTER	LED	LIGHT EMITTING DIODE	3.13	OTHERWISE
EGC	EQUIPMENT GROUNDING	MCB	MAIN CIRCUIT BREAKER	UPS	UNINTERRUPTIBLE POWER SUPPLY
	CONDUCTOR	МН	MANHOLE	V	VOLT
EWC	ELECTRIC WATER COOLER	MLO	MAIN LUGS ONLY	VFD	VARIABLE FREQUENCY DRIVE
F&I	FURNISH AND INSTALL	NC	NORMALLY CLOSED	W	WATT
FT	FEET	NF	NON-FUSED	WP	WEATHERPROOF
				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.

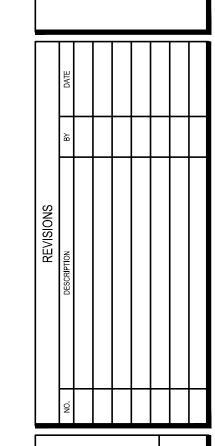
ALL WRITTEN NOTES ON THIS SHEET AND ALL OTHER SHEETS CONTAINED IN THESE PLANS SHALL BE READ AND UNDERSTOOD BY THE GENERAL CONTRACTOR AND ALL SUB CONTRACTORS. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS TO COORDINATE WITH EACH OTHER TO DELIVER COMPLETE, FUNCTIONING SYSTEMS AS SHOWN IN THESE PLANS.

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.
- 2. 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.
- 3. 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.
- 5. COORDINATE WORK WITH ALL OTHER TRADES.
- 6. 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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. SEAL ALL CONDUITS AT TERMINATIONS THAT RUN BELOW THE SLAB TO MAKE THEM WATER TIGHT.
- 11. ALL JUNCTION BOXES SHALL BE ACCESSIBLE FOR FUTURE SERVICE PER NEC.
- 12. CONDUIT SHALL NOT BE ROUTED EXPOSED IN FINISHED AREAS UNLESS NOTED OTHERWISE.
- 13. ALL CONDUITS BELOW GRADE SHALL BE PVC WITH LONG SWEEP ELBOWS.
- 14. ALL BELOW GRADE GROUNDING CONNECTIONS SHALL BE EXOTHERMIC NO EXCEPTIONS.
- 15. 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.
- 16. CONTRACTORS NEED TO MAKE SITE VISIT PRIOR TO BID. IT IS THE CONTRACTORS RESPONSIBILITY TO FIELD VERIFY ALL CONDITIONS.



HALLSVILLE ISD BOBCAT STADIUM HOME PARKING EXPANSION HALLSVILLE, TEXAS



RICAL LEGENDS AND NOTES

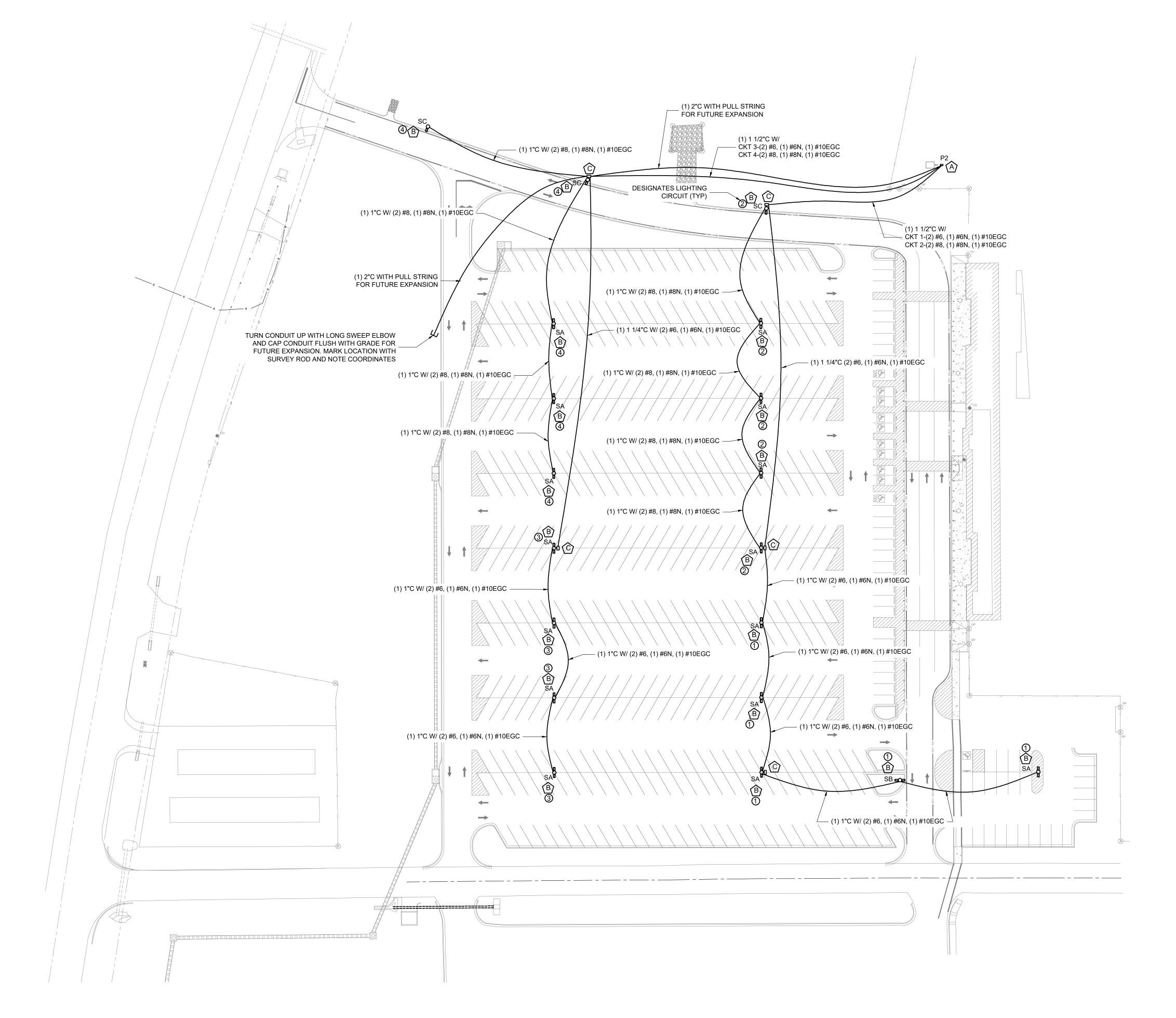
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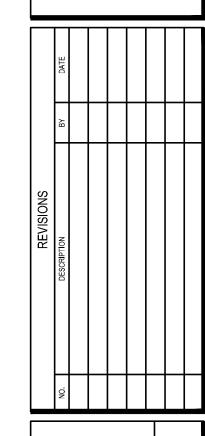
★ TAG NOTES (THIS SHEET ONLY):

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



S PACE INCORPORATED

HALLSVILLE ISD BOBCAT STADIUM HOME PARKING EXPANSION HALLSVILLE, TEXAS

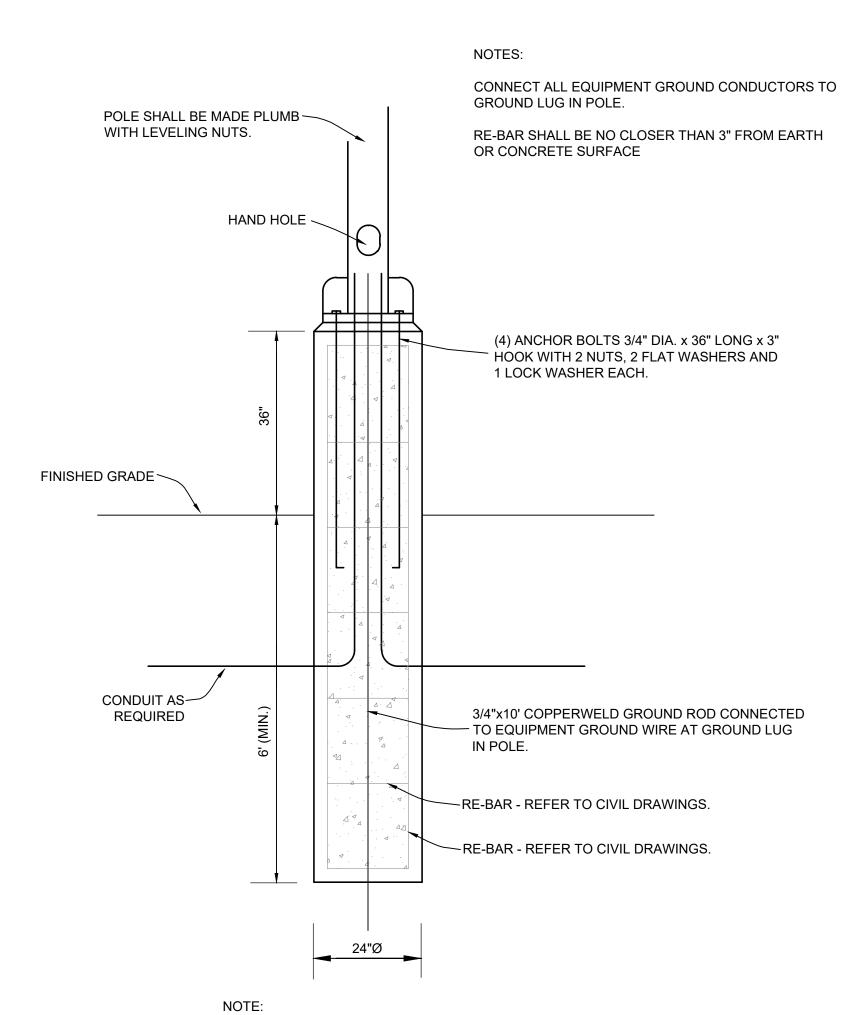




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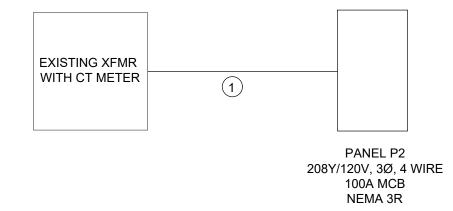




THIS DETAIL IS FOR ILLUSTRATION ONLY. REFER TO CIVIL DRAWINGS FOR CONSTRUCTION DETAILS.

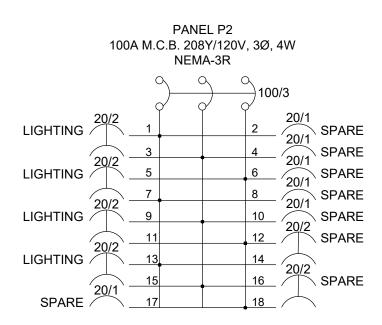
1 AREA LIGHTING POLE FOUNDATION DETAIL SCALE: N.T.S.

X FEEDER SCHEDULE: 1 1/2"C W/ (3) #1, (1) #3N, (1) #8 EGC



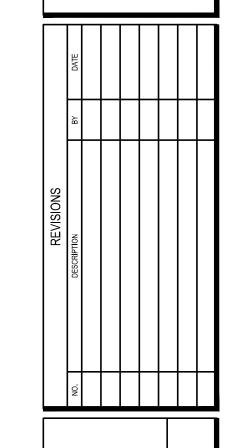
2 ELECTRICAL ONE LINE DIAGRAM SCALE: N.T.S.

	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				





HALLSVILLE ISD BOBCAT STADIUM HOME PARKING EXPANSION HALLSVILLE, TEXAS



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