

STANDARD UTILITY AGREEMENT

U-0006: Comcast
County: Fort Bend
Highway: FM 1093 Westpark Extension

This Agreement by and between the County of Fort Bend, Texas, ("**County**"), and Comcast ("**Utility**"), acting by and through its duly authorized representative, shall be effective on the date of approval and execution by and on behalf of the **County**.

WHEREAS, the **County** has deemed it necessary to make certain highway improvements as designated by the **County** and approved by the Federal Highway Administration within the limits of the highway as indicated above;

WHEREAS, the proposed highway improvements will necessitate the adjustment, removal, and/or relocation of certain facilities of **Utility** as indicated in the following statement of work: relocation of assets (underground fiber optic cable and overhead lines) into a predesignated corridor according to the following schedule:

Start Date – November 24, 2015 (Approx.)
Completion Date – February 22, 2016 (Approx.)

WHEREAS, Subchapter E of Chapter 203 of the Texas Transportation Code regarding the relocation of utilities does not apply to this Project, but the County wishes to negotiate in good faith and enter into agreements with all affected utility companies for the participation in the costs of the adjustment, removal, and/or relocation of certain facilities as authorized under such subchapter.

WHEREAS, the **County**, upon receipt of evidence it deems sufficient, acknowledges **Utility's** interest in certain lands and/or facilities and determined it is appropriate to enter an agreement with **Utility** to govern the terms for participation in the costs of the adjustment, removal, and relocation of certain of its facilities located upon the lands as indicated in the statement of work above.


NOW, THEREFORE, BE IT AGREED:

The **County** will pay to **Utility** fifty percent (50%) of the documented actual costs incurred for relocation of the utility in adjustment, removal, and/or relocation of **Utility's** facilities up to the amount said costs may be eligible for **County** participation.

All conduct under this agreement, including but not limited to the adjustment, removal and relocation of the facility, the development and reimbursement of costs, any environmental requirements, and retention of records will be in accordance with all applicable federal and state laws, rules and regulations, including, without limitation, the Federal Uniform Relocation Assistance and Real Property Acquisition Policies Act, 42 U.S.C. §§ 4601, et seq., the National Environmental Policy Act, 42 U.S.C. §§ 4231, et seq., the Buy America provisions of 23 U.S.C. § 313 and 23 CFR 635.410, the Utility Relocations, Adjustments, and Reimbursements provisions of 23 CFR 645, Subpart A, and with the Utility Accommodation provisions of 23 CFR 645, Subpart B. **Utility** shall supply, upon request by the **County**, proof of compliance with the aforementioned laws, rules and regulations prior to the commencement of construction.

The **Utility** agrees to develop relocation or adjustment costs by accumulating actual direct and related indirect costs in accordance with a work order accounting procedure prescribed by **County**, or may, with the **County's** approval, accumulate actual direct and related indirect costs in accordance with an established accounting procedure developed by **Utility**. Bills for work hereunder will be submitted to **County** not later than 90 days after completion of the work.

When requested, the **County** will make intermediate payments at not less than monthly intervals to **Utility** when properly billed and such payments will not exceed 90 percent (90%) of the eligible cost as shown in each such billing. Intermediate payments shall not be construed as final payment for any items included in the intermediate payment.

 12/7/15
Date
Fort Bend County

RGN 11/17/15
Initial Date
Comcast

Upon execution of this agreement by both parties hereto, the **County** will, by written notice, authorize the **Utility** to perform such work diligently, and to conclude said adjustment, removal, or relocation by the stated completion date. The completion date shall be extended for delays caused by events outside **Utility's** control, including an event of Force Majeure, which shall include a strike, war or act of war (whether an actual declaration of war is made or not), insurrection, riot, act of public enemy, accident, fire, flood or other act of God, sabotage, or other events, interference by the **County** or any other party with **Utility's** ability to proceed with the relocation, or any other event in which **Utility** has exercised all due care in the prevention thereof so that the causes or other events are beyond the control and without the fault or negligence of **Utility**.

However, for any failure by **Utility** to conclude said adjustment, removal, or relocation by the stated completion date not caused by events outside **Utility's** control, the **County** may elect to: (1) reduce the reimbursement to **Utility** by one percent (1%) each day delayed; or (2) relocate the facility at the sole cost and expense of **Utility**.

The **County** will, upon satisfactory completion of the relocation or adjustment and upon receipt of final billing prepared in an approved form and manner, make payment in the amount of 90 percent (90%) of the eligible costs as shown in the final billing prior to audit and after such audit shall make an additional final payment totaling the reimbursement amount found eligible for **County** reimbursement.

Unless an item below is stricken and initialed by the **County and Utility**, this agreement in its entirety consists of the following:

1. Standard Utility Agreement;
2. Plans & Specifications (Exhibit "A");
3. Utility Construction Cost Estimate (Exhibit "B");
4. Utility's Schedule of Work and Estimated Date of Completion (Exhibit "C").

All attachments are included herein as if fully set forth. In the event it is determined that a substantial change from the statement of work contained in this agreement is required, reimbursement therefore shall be limited to costs covered by a modification or amendment of this agreement or a written change or extra work order approved by the **County and Utility**.

This agreement is subject to cancellation by the **County** at any time up to the date that work under this agreement has been authorized and that such cancellation will not create any liability on the part of the **County**. However, the **County** will review and reimburse the **Utility** for eligible costs incurred by the **Utility** in preparation of this Agreement.


The **Utility** acknowledges to and for the benefit of the **County** and State of Texas that it understands the project under this Agreement is eligible for Federal-aid highway funds and as such, requires all of the iron, steel, and manufactured goods used in the project be produced in the United States ("Buy American Requirements") including iron, steel, and manufactured goods provided by the **Utility** pursuant to this Agreement.


The State Auditor may conduct an audit or investigation of any entity receiving funds from the **County** directly under this contract or indirectly through a subcontract under this contract. Acceptance of funds directly under this contract or indirectly through a subcontract under this contract acts as acceptance of the authority of the State Auditor, under the direction of the Legislative Audit Committee, to conduct an audit or investigation in connection with those funds. An entity that is the subject of an audit or investigation must provide the state auditor with access to any information the state auditor considers relevant to the investigation or audit.

The **Utility** by execution of this agreement does not waive any of the rights which **Utility** may have within the limits of the law.

It is expressly understood that the **Utility** conducts the adjustment, removal, or relocation at its own risk, and that Fort Bend County, Texas makes no warranties or representations regarding the existence or location of utilities currently within its right of way.

The signatories to this agreement warrant that each has the authority to enter into this agreement on behalf of the party represented.


Date 12/7/15
Fort Bend County


Initial
Date 11/17/15
Comcast

UTILITY

Utility: Comcast
Name of Utility

By: 
Authorized Signature

Roy Novosel
Print or Type Name

Title: Director of Construction

Date: 11/17/15

EXECUTION RECOMMENDED:

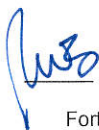
COUNTY

By: _____
Authorized Signature

Print or Type Name

Title: _____

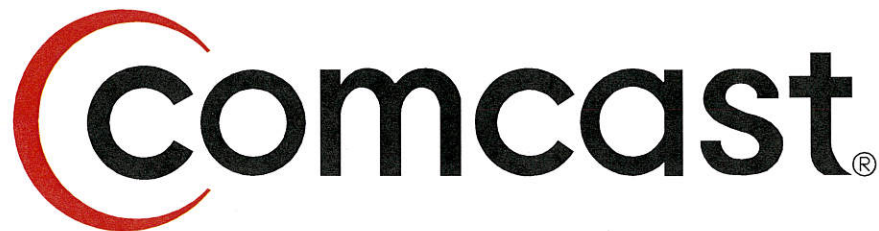
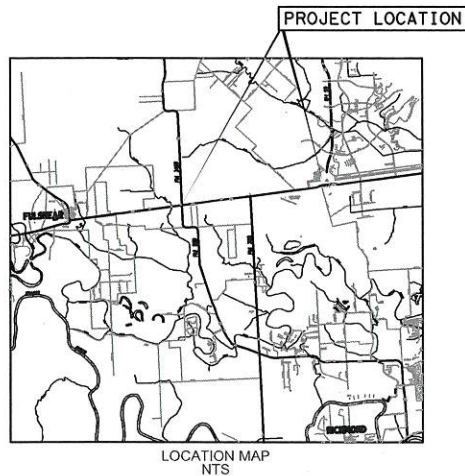
Date: _____

 12/7/15
Date
Fort Bend County

RCN 11/17/15
Initial Date
Comcast

EXHIBIT "A"
PLANS AND SPECIFICATIONS

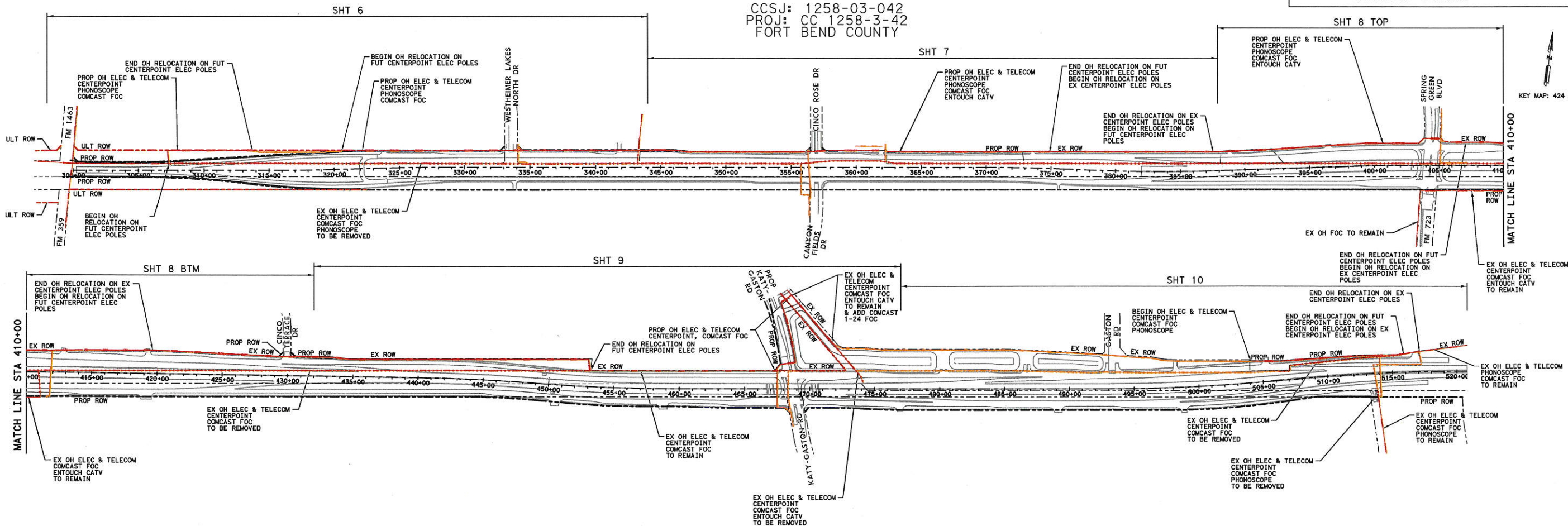
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PROPOSED AERIAL AND UNDERGROUND CABLE FM 1093 WESTPARK EXTENSION FROM WEST OF KATY-GASTON RD TO WEST OF SH 99

CCSJ: 1258-03-042
PROJ: CC 1258-3-42
FORT BEND COUNTY

SHEET INDEX	
SHT NO	DESCRIPTION
1	COVER
2	UNDERGROUND LAYOUT
3	GENERAL NOTES
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REVIEWED AND APPROVED FOR CONSTRUCTION BY: *Margie Blackwell* 11/17/15
MANAGER MARGIE BLACKWELL DATE:
COMCAST

NOTE: THESE DRAWINGS WERE DEVELOPED FROM PLANS PROVIDED BY DANNENBAUM ON OR BEFORE SEPT 9, 2015

CONTRACTOR TO COORDINATE CONSTRUCTION WITH FORT BEND COUNTY ENGINEERING.

FIELD CONDITIONS IN WORK AREA CHANGE DAILY

ONE-CALL NOTIFICATION SYSTEM
CALL
811
BEFORE YOU DIG !!!

PLANS PREPARED BY
CobbFendley
TBPE Firm Registration No. 274
TBPLS Firm Registration No. 100467
13430 Northwest Freeway, Suite 1100
Houston, Texas 77040
713.462.3242 | fax 713.462.3262
www.cobbhendley.com

SHEET
1

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*USER: 150340*Comcast*FM1093*
PROJECT: COMCAST

FM 1093 WESTPARK EXTENSION

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GENERAL CONSTRUCTION NOTES

1. ALL EXISTING FACILITIES CURRENTLY IN SERVICE MUST REMAIN IN SERVICE, UNLESS OTHERWISE NOTED IN THE DRAWINGS.
2. ALL EFFORTS HAVE BEEN MADE TO INDICATE ALL EXISTING UTILITIES ON PLANS, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND PROTECT ALL SAID UTILITIES AS WELL AS SERVICE CONNECTIONS (WHETHER OR NOT INDICATED ON PLANS), PRIOR TO CONSTRUCTION, CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES TO VERIFY LOCATION OF EXISTING UTILITIES.
3. CONTRACTOR SHALL CONTACT THE TEXAS EXCAVATION SAFETY SYSTEM INC. (TEXAS811 CALL BEFORE YOU DIG) AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO REQUEST UNDERGROUND UTILITIES BE LOCATED. CONTRACTOR SHALL CALL 811 OR VISIT WWW.TEXAS811.ORG BY CLICKING ON THE DIGGING IN TEXAS TAB TO INITIATE A LOCATE REQUEST.
4. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH GAS, OIL, ELECTRIC, TELEPHONE, FIBER OPTIC, CABLE TV, SEWER AND WATER UTILITY OWNERS, ETC. FOR ANY RELOCATION AND/OR PROTECTION OF EXISTING LINES OR CABLES AS REQUIRED, DUE TO CONSTRUCTION ACTIVITIES.
5. CONTRACTOR TO PROVIDE A MINIMUM OF 1' OF CLEARANCE AT ALL CROSSINGS OF SANITARY SEWERS, STORM SEWERS, ELECTRIC, WATER LINES AND LEADS.
6. CONTRACTOR MUST COMPLY WITH OSHA SPECIFICATIONS AND PRACTICES ON TRENCH SAFETY, EXCAVATION AND SHORING REQUIREMENTS.
7. THE CONSTRUCTION CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, SEQUENCE, PROCEDURES, TECHNIQUES OR SCHEDULING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. THE CONSTRUCTION CONTRACTOR SHALL ALSO BE SOLELY RESPONSIBLE FOR SAFETY IN OR ABOUT THE JOB SITE IN ACCORDANCE WITH ANY HEALTH OR SAFETY PRECAUTIONS, REGULATIONS, STANDARDS OR CODES REQUIRED BY O.S.H.A. OR ANY OTHER REGULATORY AGENCY.
8. NO MORE TRENCH CAN BE OPENED AT ONE TIME THAN CAN BE BACKFILLED AND COMPACTED IN 8" LIFTS AS PER TXDOT ITEM NO. 400 (EXCAVATION AND BACKFILL FOR STRUCTURES). AT THE END OF EACH WORK PERIOD, NO TRENCH SHALL BE LEFT OPEN OVERNIGHT.
9. EXISTING PAVEMENT, CURBS, SIDEWALKS, AND DRIVEWAYS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED BY BONDED CONTRACTOR IN CONFORMANCE WITH LOCAL STANDARDS. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED AT ALL PEDESTRIAN CROSSINGS WHERE CURB REMOVAL IS REQUIRED FOR INSTALLATION OF THE UNDERGROUND CONDUIT SYSTEM. ALL PAVEMENT REMOVED WILL BE WET SAW CUT PRIOR TO REMOVAL.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING BORE PIT LOCATIONS AND DIMENSIONS, INFORMATION SHOWN ON PLANS ARE FOR REFERENCE PURPOSE ONLY. ANY DEVIATIONS SHALL BE APPROVED BY DEVELOPER. SITE SHALL BE RESTORED TO EXISTING CONDITIONS WITH MATERIAL COMPACTED TO DESIGN DOCUMENT REQUIREMENTS.
11. IF IT BECOMES NECESSARY TO OPERATE MACHINERY ON A PORTION OF THE PAVEMENT, PRECAUTIONS MUST BE TAKEN TO PREVENT ANY DAMAGE WHATSOEVER TO THE PAVEMENT. DAMAGED PAVEMENT WILL BE REPLACED IN ACCORDANCE WITH THE PAVEMENT DESIGN.
12. ALL TRAFFIC CONTROL MEASURES AND DEVICES REQUIRED FOR CONSTRUCTION OF THIS RELOCATION MUST CONFORM TO THE COMPREHENSIVE DEVELOPMENT AGREEMENT AND THE 2011 EDITION OF THE TMUTCD. TRAFFIC CONTROL PLANS AND FLAGMEN TO BE PROVIDED BY DEVELOPER.
13. BORE PITS WITHIN CLEAR ZONE MUST BE PROTECTED BY CONCRETE TRAFFIC BARRIERS (CTB'S). OPEN PITS MUST BE COMPLETELY COVERED AND CLEARLY DELINEATED BY SURROUNDING THE PIT WITH CAUTION TAPE OR SEALED OFF BY ORANGE PLASTIC MESH FENCING AND CONES OR DRUMS.
14. CONSTRUCTION EQUIPMENT LEFT OVERNIGHT IN RIGHT-OF-WAY SHALL BE PLACED AT LEAST 30' FROM EDGE OF PAVEMENT (CLEAR ZONE).
15. CONTRACTOR WILL BE RESPONSIBLE FOR REPLACING AND MAINTAINING TRAFFIC SIGNS AND PAVEMENT MARKINGS, INCLUDING CENTERLINES, BARRIER LINES, LANE LINES, RAISED PAVEMENT MARKING, ETC.
16. INSTALLATION AND MAINTENANCE OF SWPPP TO BE PERFORMED BY DEVELOPER. CONTRACTOR SHALL REPAIR OR REPLACE ANY STORM WATER POLLUTION PREVENTION PLAN (SWPPP) DEVICES DAMAGED OR REMOVED BY THIS OPERATION. CONTRACTOR SHALL KEEP ALL DEBRIS & SPOIL OUT OF DRAINS, CULVERTS, AND DROP INLETS AND ENSURE THAT THEY DO NOT BECOME CLOGGED AS A RESULT OF CONSTRUCTION ACTIVITIES.
17. ANY DISCREPANCIES IN THE FIELD DURING CONSTRUCTION FROM WHAT IS SHOWN ON THE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE UTILITY DESIGN ENGINEER AND DEVELOPER. ALL CHANGES SHALL FOLLOW COMPREHENSIVE DEVELOPMENT AGREEMENT REQUIREMENTS. AS-BUILTS WILL BE PROVIDED BY CONTRACTOR TO DEVELOPER.
18. THE CONDUIT, FITTINGS, CONDUIT BODIES AND ACCESSORIES SHALL BE INSPECTED UPON DELIVERY AND DURING THE PROGRESS OF THE WORK. ANY MATERIAL FOUND TO BE DEFECTIVE WILL BE REJECTED BY THE UTILITY OWNER'S REPRESENTATIVE AND THE CONTRACTOR SHALL REMOVE SUCH DEFECTIVE MATERIAL FROM THE SITE OF THE WORK.
19. CONTRACTOR SHALL COORDINATE AND VERIFY ANY UTILITY ABANDONMENT WITH THE UTILITY COMPANY, WITH DEVELOPER AND TXDOT. NO FACILITY MAY BE CONSIDERED ABANDONED WITHOUT WRITTEN CONSENT FROM THE UTILITY OWNER AND PER UAR 21.39(C)(A).
20. CONTRACTOR IS TO PLUG ALL INSTALLED DUCTS.
21. THE CONSTRUCTION CONTRACTOR SHALL PLACE WARNING TAPE OVER ALL CONDUIT.
22. ALL PROPOSED BENDS SHALL BE GRADUAL SWEEPS WITH A MINIMUM 5-FOOT RADIUS.
23. CONTRACTOR SHALL CONSTRUCT HORIZONTAL DIRECTIONAL DRILL IN ACCORDANCE WITH THE INDUSTRY GUIDELINES AND PROCEDURES APPROPRIATE IN ASTM, ASCE, PPI, NO-DIG PUBLICATIONS, NASTT AND AMERICAN SOCIETY FOR TRENCHLESS TECHNOLOGY.

24. TEMPORARY CONSTRUCTION EASEMENTS TO BE SECURED BY THE DEVELOPER IF NECESSARY. IF APPLICABLE THE CONTRACTOR IS TO CONFIRM ACQUISITION PRIOR TO SCHEDULING WORK. REFER TO SPECIAL PROVISIONS FOR EASEMENT DETAILS.

25. CONTRACTOR TO PROVIDE AND PLACE MULE TAPE IN EACH INSTALLED DUCT.

26. CONTRACTOR SHALL PLACE MARKER SIGNS AT EACH MANHOLE AND HANDHOLE INSTALLED PROVIDED BY UTILITY OWNER.

27. CONTRACTOR TO CONTACT UTILITY OWNER A MINIMUM OF 48 HOURS PRIOR TO CONNECTION TO EXISTING HANDHOLE OR DUCTS TO COORDINATE ON-SITE INSPECTION BY UTILITY PERSONNEL.

28. CONTRACTOR TO ENCASE ALL 90° HORIZONTAL BENDS FOR CONDUITS WITH CONCRETE OF 2500 PSI COMPRESSIVE STRENGTH OR AS INDICATED ON THE DRAWINGS.

29. ALL PROPOSED TELECOM FACILITIES SHOULD BE INSTALLED AT A MINIMUM OF 4-FEET BELOW FINISH GRADE ELEVATION AT ALL LOCATIONS, UNLESS NOTED ON THE PLANS.

30. THE ROW WILL BE CLEARED AND STAKED BY THE DEVELOPER PRIOR TO THE UTILITY RELOCATION.

31. IN CASE OF UTILITY DAMAGE, CONTRACTOR IS TO EVACUATE AND SECURE AREA IF NECESSARY, CALLING 911 WHEN APPROPRIATE (PETROLEUM PIPELINE DAMAGE).

32. CONTRACTOR IS TO NOTIFY TEXAS 811 AND REPORT DAMAGE.

UTILITY OWNER CONTACTS

1. CONTRACTOR TO CONTACT TELECOM OWNER A MINIMUM 2-WEEKS PRIOR TO CONSTRUCTION.

2. A PRECONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF ONE WEEK PRIOR TO CONSTRUCTION.

3. CONTRACTOR IS TO CALL UTILITY OWNER AND REPORT DAMAGE.

4. CONTRACTOR IS TO NOTIFY UTILITY MANGER OR DEPUTY UTILITY MANAGER AND REPORT DAMAGE.

AT&T LEGACY
IKE BUTLER
3910 SAN JACINTO ST
DALLAS, TX 75204
TEL 214-205-8922

AT&T TEXAS
DIANA WARD
6500 WEST LOOP SOUTH
ZONE 1.3
BELLAIRE, TX 77401
TEL 713-660-5304
FAX 713-660-5342
DC8581@ATT.COM

CENTERPOINT ENERGY ELECTRIC
ED HULSEY
TEL 713-945-4662
ED.HULSEY@CENTERPOINTENERGY.COM

CENTERPOINT ENERGY GAS
LOUIS CARDENAS
TEL 713-207-4605
FAX 713-207-0877
LOUIS.CARDENAS@CENTERPOINTENERGY.COM

COMCAST
MARGIE BLACKWELL
7703 AIRPORT BOULEVARD
HOUSTON, TX 77061
TEL 281-624-3021
MOBILE 281-831-8109
MARGARET_BLACKWELL@CABLE.COMCAST.COM

CONOCO PHILLIPS/PHILLIPS 66/SEAWAY
RICHARD ALLEN
P.O. BOX 4428
HOUSTON, TX 77210
TEL 832-765-1422
RICHARD.D.ALLEN@P66.COM

COPANO/KINDER MORGAN
JIM EPHRAIM
500 DALLAS ST, STE 1000
HOUSTON, TX 77002
OFC 713-369-8851
MOBILE 713-201-0549
JIM_EPHRAIM@KINDERMORGAN.COM

DOW PIPELINE
JEFF CASH
727 OLD UNDERWOOD RD
LA PORTE, TX 77571
OFC 281-966-4581
MOBILE 281-804-5330
JCASH@DOW.COM

ENTERPRISE PRODUCTS
JAY JOHNSON
JARJOHNSON@EPROD.COM

ENTOUCH SYSTEMS
WESLEY PENNIX
11011 RICHMOND AVE #400
HOUSTON, TX 77042
MOBILE 281-225-9350
WPENNIX@ENTOUCHSYSTEMS.NET

EXXONMOBIL
MICHAEL HLUZA
22777 SPRINGWOODS VILLAGE PKWY
E3.5A.556
SPRING, TX 77389
TEL 832-624-7933

GULF SOUTH PIPELINE
JEFF PENDLETON
11115 INDUSTRIPLEX BLVD
BATON ROUGE, LA 70809
TEL 225-292-6944

LEVEL 3 COMMUNICATIONS
CLAYTON EKSTROM
12001 IH 45 NORTH FREEWAY
HOUSTON, TX 77060
TEL 281-618-3932
MOBILE 832-752-9543
CLAYTON.EKSTROM@LEVEL3.COM

MCIMETRO
MIKE WILLIAMS
14503 LUTHE ROAD
HOUSTON, TX 77039
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MOBILE 972-795-4277
FAX 281-901-3565
MIKE.WILLIAMS1@VERIZON.COM

PHONOSCOPE LIGHTWAVE
FRANK TORRES
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HOUSTON, TX 77036
TEL 713-272-4600
MOBILE 713-240-2800
FAX 713-271-4334
FTORRES@PHONOSCOPE.COM

SOUTHCROSS ENERGY
700 TOWN AND COUNTRY BLVD STE 950
HOUSTON, TX 77024
TEL 713-580-0262

TEXAS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS FOR PLACING UTILITY LINES WITHIN THE RIGHT-OF-WAY OF STATE-MAINTAINED HIGHWAYS:

1. ALL EXCAVATIONS WITHIN THE RIGHT-OF-WAY AND NOT UNDER SURFACING SHALL BE BACKFILLED BY TAMPING IN 8-INCH HORIZONTAL LAYERS AND/OR AS PER TXDOT SPEC ITEM 400. ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY AND THE EXCAVATION FINISHED FLUSH WITH THE SURROUNDING NATURAL GROUND. BACKFILL PLACED UNDER PROPOSED PAVEMENT AREAS SHALL BE DENSITY CONTROLLED.

2. WHERE SODDING IS DISTURBED BY EXCAVATION OR BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING. SLOPES 4:1 OR STEEPER, SHALL BE REPLACED BY BLOCK SODDING. THIS WORK SHALL BE IN ACCORDANCE WITH TXDOT SPECIFICATIONS.

3. HIGHWAY CROSSINGS UNDER SURFACED ROADS AND SURFACED CROSSROADS WITHIN THE RIGHT-OF-WAY SHALL BE PLACED BY OPEN TRENCH OR BORING. CASING SHALL EXTEND MINIMUM 5-FEET FROM BACK OF CURB, 5-FEET BEYOND THE TOE OF SLOPE FOR FILLS OR FROM TOP OF BACKSLOPE TO TOP OF BACKSLOPE FOR CUT SECTIONS. ALL LINES CARRYING PRESSURE SHALL BE ENCLOSED IN SATISFACTORY CASING.

4. USE OF WATER AND OTHER FLUIDS IN CONNECTION WITH BORING OPERATIONS WILL BE PERMITTED ONLY IN SUFFICIENT QUANTITY TO LUBRICATE BORING BIT AND FOR EASE OF REMOVING CUTTINGS. JETTING WILL NOT BE PERMITTED. CARE WILL BE TAKEN TO PREVENT POUR FLUIDS FROM ENTERING STORM WATER SYSTEM.

5. PIPELINE MATERIAL AND DESIGN FOR HIGH PRESSURE LINES MUST MEET THE MINIMUM FEDERAL SAFETY STANDARDS FOR LIQUID AND GAS PIPELINES.

6. WORK PERFORMED ON RAILROAD RIGHT-OF-WAY IS SUBJECT TO THE CONCURRENCE OF THE RAILROAD COMPANY. WORK PERFORMED WITHIN WATERWAYS, SUCH AS RIVERS, CREEKS, BAYOUS, AND DRAINAGE DITCHES IS SUBJECT TO THE RULES & REQUIREMENTS OF THAT APPROPRIATE GOVERNMENTAL AGENCY.

7. ALL MANHOLE COVERS SHALL BE INSTALLED FLUSH WITH FINISHED GROUND LEVEL. THE TOP OF ROOF OF COMMUNICATIONS MANHOLES SHALL BE AT LEAST FIVE FEET BELOW FINAL GRADE WITHIN STATE RIGHT-OF-WAY.

8. TRENCH BACKFILL SHALL COMPLY WITH TXDOT STANDARD SPECIFICATION ITEM 400.

9. UTILITY INSTALLATION SHALL COMPLY WITH THE TXDOT UTILITY ACCOMMODATION RULES.

WILLIAMS PIPELINE
KEVIN BRADSHAW
16930 WALLISVILLE RD
HOUSTON, TX 77049
TEL 281-457-4048
KEVIN.BRADSHAW@WILLIAMS.COM



INTERIM REVIEW
Not intended for construction, bidding or permit purposes.
Engineer: VINEETA JAYARAM
P.E. Serial No.: 101121
Date: 11/12/2015

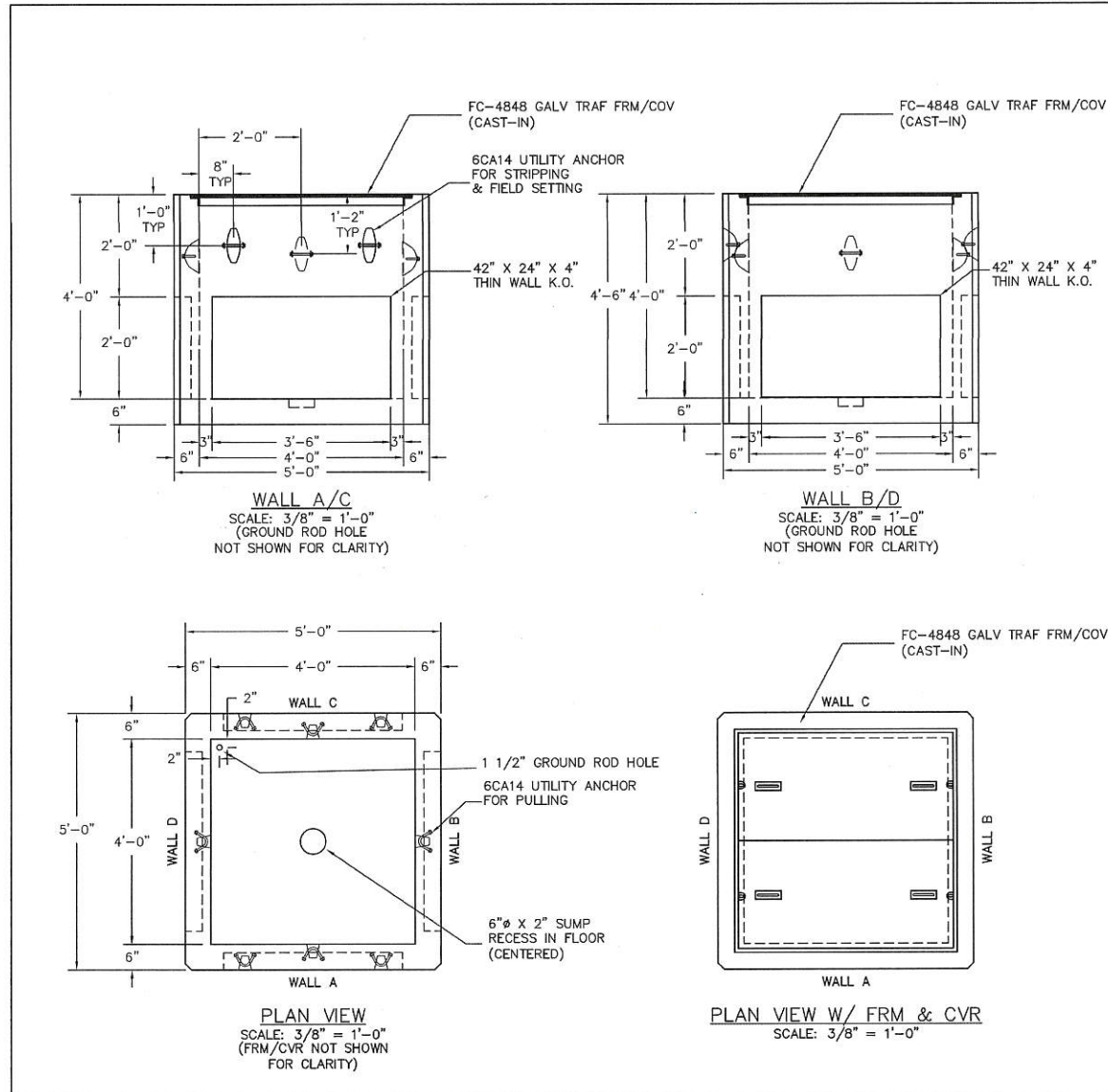
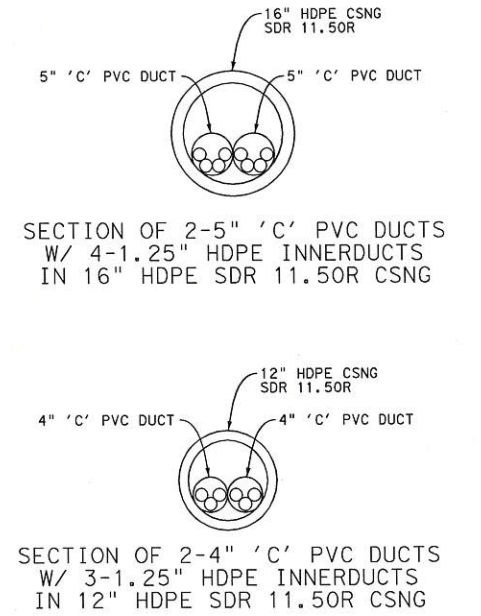
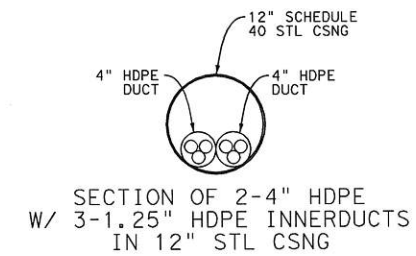
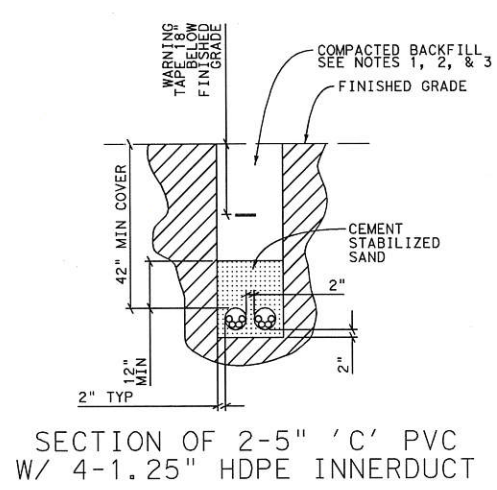
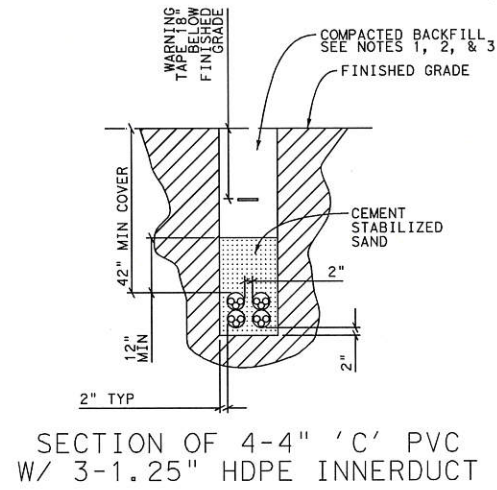
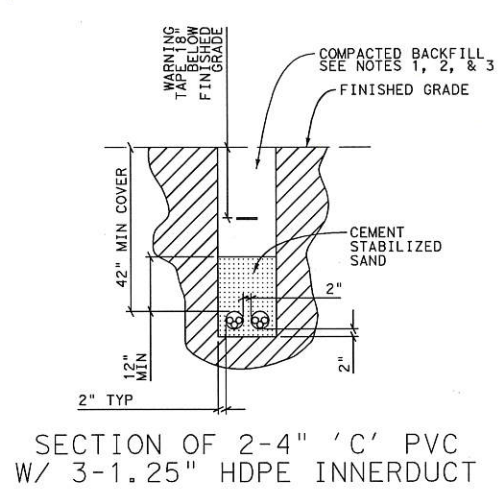
CobbFendley
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FM 1093 WESTPARK EXTENSION

GENERAL NOTES

SHT 1 OF 1

SCALE: NTS	DRAWN BY EMC	SHEET 3
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DESIGN NOTES

- DESIGN CRITERIA IS MINIMUM USED UNLESS OTHERWISE SPECIFIED
- DESIGN LOADINGS:
 - A. AASHTO HS-20-44, W/ IMPACT.
 - B. SOIL WEIGHT = 120 PCF.
 - C. DEPTH OF OVERBURDEN 0.0' MIN, 0.0' MAX.
 - D. ASSUMED WATER TABLE: 3 FT. BELOW GRADE
 - E. EQUIV. FLUID PRESSURE = 45 PCF.
 - F. 80 PSF LATERAL LIVE LOAD SURCHARGE
- CONCRETE 28 DAY COMPRESSIVE STRENGTH SHALL BE 5500 PSI (MIN.)
- STEEL REINFORCEMENT: REBAR, ASTM A-615 GRADE 60
- CEMENT: ASTM C-150 SPECIFICATIONS
- FABRICATION OF STRUCTURE SHALL BE IN ACCORDANCE WITH ASTM C 858.
- STRUCTURAL DESIGN LOADING SHALL BE IN ACCORDANCE TO ASTM C 857, CLASS A-16.

BILL OF MATERIALS

TYPE	QTY
8590120: CONCRETE MIX (PB)	1.45 CU.YDS.
6CA14 UTILITY ANCHOR	8
FC-4848 GALV TRAF FRM/COV	1
6" SUMP RECESS	1
1 1/2" GROUND ROD HOLE	1

PRODUCT WEIGHTS

PULL BOX	5,875 LBS.
TOTAL	5,875 LBS.

DRAWN BY: S ESCALONA SOLD BY: JT
 DATE: 08/07/2013 SCALE: 3/8" = 1'-0"
 DWG NAME: 264-4X4X4-UEP-SO#21335 PAGE 1 OF 1

4'-0" X 4'-0" X 4'-0" PULLBOX W/ FRAME REF-CHEM SO#21335

CHECKED BY: DATE:

REVISIONS:

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Oldcastle® Precast, Inc.
 13600 S. Wayside Houston TX 77048
 PHONE: (713) 991-2400 FAX: (713) 991-0815

INWESCO INCORPORATED

746 North Coney Avenue Azusa, CA 91702
 Telephone: (626) 334-9304 Fax: (626) 969-3404

INWESCO, Inc - Texas
 2824 N. Sylvania Ave. Ft. Worth, TX 76111
 Telephone: (817) 834-3310 Fax: (817) 834-3315

WEIGHTS		
	STEEL	GALV.
FRAME	109.00 LBS	116.00 LBS
COVER	190.00 LBS/EACH	201.00 LBS/EACH

4'-0" X 4'-0" Shock Assist Type
 90 Degrees, H-20 Loading
 Frame & Cover Assembly

LOADING:
 Suitable For H-20 Wheel Loading
 in Off-Street Locations Where not
 Subjected To High Density Traffic.

COMPONENT PARTS:
 A. Shock assist covers available in diamond or slip resistance plate.
 B. Frame assembly available: Cast in, bolt down, or skirting.
 C. Kick stand.
 D. Locking mechanism (Square Nut 1/2").
 E. Mechanical Shock.
 F. Cast in rebar.
 G. ID plate (Per request).
 H. Lift handles.

NOTES:
 -FOR BOLT DOWN FRAME TYPE
 USE SLOTS
 -FOR CAST-IN FRAME TYPE
 USE REBAR.

FEATURES:
 - Shock assist to reduce the lifting weight of cover.
 - Locking kickstand prevents the covers from accidentally closing.
 - Frame and covers available galvanized or painted.
 - Covers available with security bolts or locking mechanisms.
 - Covers available with either lifting handles or pick holes.
 - Other sizes available upon request.

INWESCO Prepared By: H.T.H.
 Date: 12-12-12

4'-0" X 4'-0" Shock Assist Type
 90 Degrees, H-20 Loading
 Frame & Cover Assembly

comcast

INTERIM REVIEW
 Not intended for construction,
 bidding or permit purposes.
 Engineer: VINEETA JAYARAM
 P.E. Serial No.: 101121
 Date: 11/12/2015

CobbFendley
 TBPE Firm Registration No. 274
 TBPLS Firm Registration No. 100467
 13430 Northwest Freeway, Suite 1100
 Houston, Texas 77040
 713.462.3242 | fax 713.462.3262
 www.cobbfendley.com

FM 1093 WESTPARK EXTENSION
HANDHOLE & TRENCH DETAILS
 4'0"X4'0"X4'0" HR
 SHT 1 OF 2

SCALE: NTS DRAWN BY: EMC SHEET: 4

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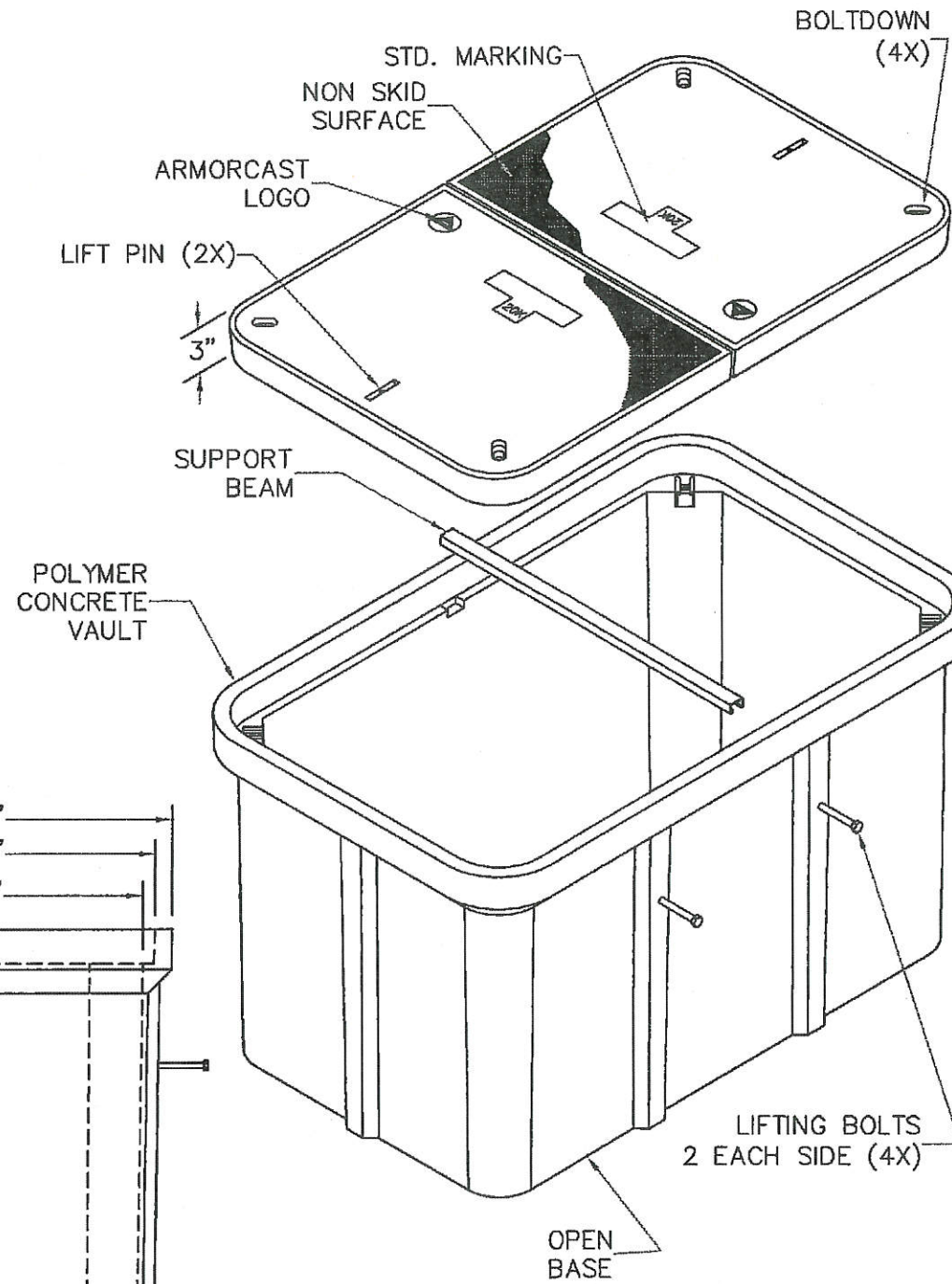
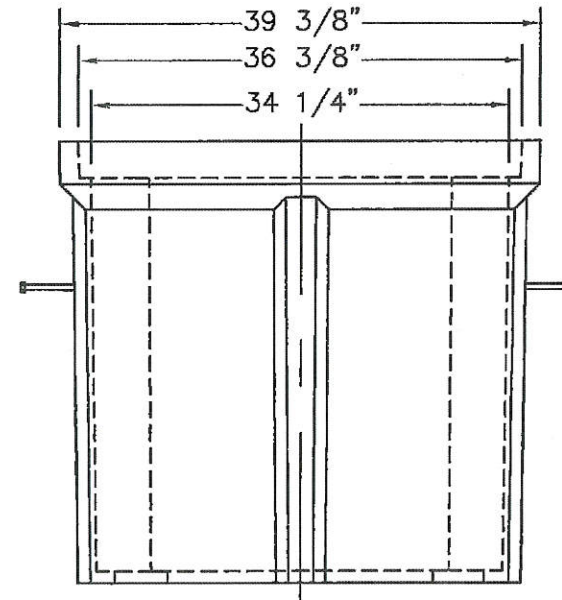
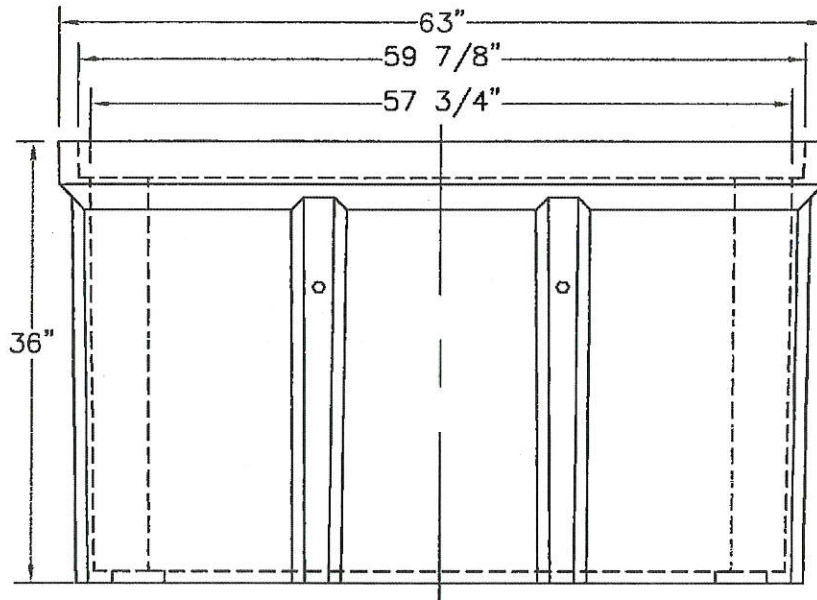
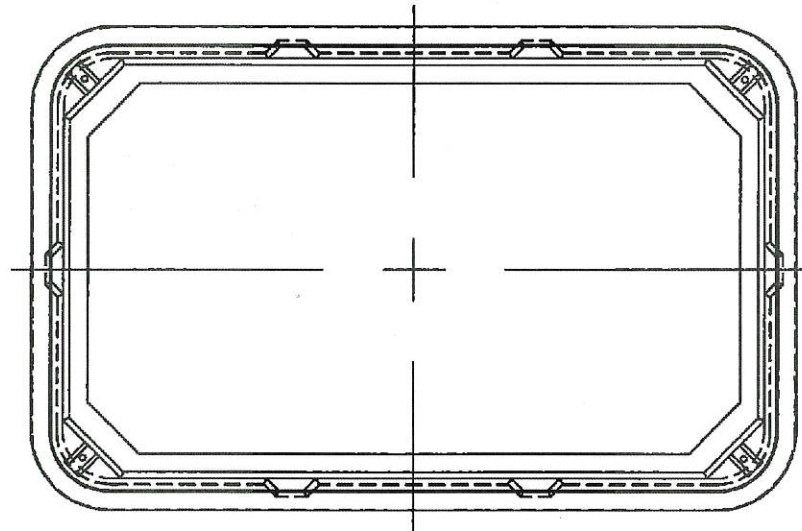
FM 1093 WESTPARK EXTENSION

11/13/2015
8:34:55 AM

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FILE NAME
A6-1436TAPCX36

APPROX. WT. = 818 LBS.



13230 Saticoy Street, North Hollywood, CA 91605 (818) 982-3600 ARMORCAST PRODUCTS COMPANY		PART DESCRIPTION 36" X 60" X 36" POLYMER CONCRETE VAULT ASSEMBLY	
THE INFORMATION IN THIS DRAWING IS CONFIDENTIAL. THE DRAWING IS NOT TO BE REPRODUCED OR ITS CONTENTS DIVULGED IN ANY WAY WHATSOEVER EXCEPT WITH THE PRIOR WRITTEN APPROVAL OF ARMORCAST PRODUCTS COMPANY. IT IS THE PROPERTY OF AND MUST BE RETURNED TO ARMORCAST PRODUCTS COMPANY, 13230 SATICOY STREET, NORTH HOLLYWOOD, CALIFORNIA 91605.		CUSTOMER	MAX. LOAD 20,800 POUNDS DRAWING NUMBER A6001436TAPCX36
DRAWN GL	DATE 02/00	SCALE NONE	MATERIAL POLYMER CONCRETE
APPROV. WS	DATE 02/00		



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 Engineer: VINEETA JAYARAM
 P.E. Serial No.: 101121
 Date: 11/13/2015

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FM 1093 WESTPARK EXTENSION
 HANDHOLE & TRENCH DETAILS
 3'0"X5'0"X3'0" HR
 SHT 2 OF 2

SCALE: NTS	DRAWN BY EMC	SHEET 5
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LEGEND

----- OE1/T2/FOC4 -----	OH ELECTRIC, TELEPHONE, FOC: CENTERPOINT, PHONOSCOPE, COMCAST
----- OE1/T2/FOC4/CTV1 -----	OH ELECTRIC, TELEPHONE, FOC, CATV: CENTERPOINT, PHONOSCOPE, COMCAST, COMCAST
----- OE1/T2/FOC1/FOC4 -----	OH ELECTRIC, TELEPHONE, FOC, FOC: CENTERPOINT, PHONOSCOPE, AT&T, COMCAST
----- OE1/T2/CTV1 -----	OH ELECTRIC, TELEPHONE, CATV: CENTERPOINT, PHONOSCOPE, COMCAST
----- OE1/CTV1 -----	OH ELECTRIC, CATV: CENTERPOINT, COMCAST
----- OE1/FOC1 -----	OH ELECTRIC, FOC: CENTERPOINT, AT&T
----- OHCTV1 -----	OH CATV: COMCAST
----- OHCTV2 -----	OH CATV: ENTOUCH
----- OHT2 -----	OH TELEPHONE: PHONOSCOPE
----- OE1 -----	OH ELECTRIC: CENTERPOINT
----- E1 -----	ELECTRIC: CENTERPOINT
----- E1 (D) ----- E1 (D) -----	ELECTRIC: CENTERPOINT
----- G1 -----	GAS: CENTERPOINT
----- G1 (D) ----- G1 (D) -----	GAS: CENTERPOINT
----- PL1 -----	PIPELINE: CONOCO
----- PL1 (D) ----- PL1 (D) -----	PIPELINE: CONOCO
----- PL2 -----	PIPELINE: COPANO
----- PL2 (D) ----- PL2 (D) -----	PIPELINE: COPANO
----- PL3 -----	PIPELINE: DOW
----- PL3 (D) ----- PL3 (D) -----	PIPELINE: DOW
----- PL4 -----	PIPELINE: ENTERPRISE
----- PL4 (D) ----- PL4 (D) -----	PIPELINE: ENTERPRISE
----- PL5 -----	PIPELINE: EXXON
----- PL5 (D) ----- PL5 (D) -----	PIPELINE: EXXON
----- PL6 -----	PIPELINE: GULF SOUTH
----- PL6 (D) ----- PL6 (D) -----	PIPELINE: GULF SOUTH
----- PL7 -----	PIPELINE: SOUTHCROSS GULF COAST
----- PL7 (D) ----- PL7 (D) -----	PIPELINE: SOUTHCROSS GULF COAST
----- PL8 -----	PIPELINE: WILLIAMS
----- PL8 (D) ----- PL8 (D) -----	PIPELINE: WILLIAMS
----- PL9 -----	PIPELINE: ACACIA
----- PL9 (D) ----- PL9 (D) -----	PIPELINE: ACACIA
----- PL10 -----	PIPELINE: PHILLIPS 66
----- PL10 (D) ----- PL10 (D) -----	PIPELINE: PHILLIPS 66
----- PL11 -----	PIPELINE: HARRIS
----- PL11 (D) ----- PL11 (D) -----	PIPELINE: HARRIS
----- PL12 -----	PIPELINE: SEAWAY
----- PL12 (D) ----- PL12 (D) -----	PIPELINE: SEAWAY

----- FOC1 -----	FOC: AT&T
----- FOC1 (D) ----- FOC1 (D) -----	FOC: AT&T
----- FOC2 -----	FOC: MCI
----- FOC2 (D) ----- FOC2 (D) -----	FOC: MCI
----- FOC3 -----	FOC: LEVEL 3
----- FOC3 (D) ----- FOC3 (D) -----	FOC: LEVEL 3
----- T1 -----	TELEPHONE: AT&T
----- T1 (D) ----- T1 (D) ----- T1 (D) -----	TELEPHONE: AT&T
----- T2 -----	TELEPHONE: PHONOSCOPE
----- T2 (D) ----- T2 (D) ----- T2 (D) -----	TELEPHONE: PHONOSCOPE
----- T-DUCT1 -----	T-DUCT: AT&T LEGACY
----- T-DUCT1 (D) ----- T-DUCT1 (D) -----	T-DUCT: AT&T LEGACY
----- CTV1 -----	CATV: COMCAST
----- CTV1 (D) ----- CTV1 (D) -----	CATV: COMCAST
----- CTV2 -----	CATV: ENTOUCH
----- CTV2 (D) ----- CTV2 (D) -----	CATV: ENTOUCH
----- W1 -----	WATER: CITY OF
----- W1 (D) ----- W1 (D) ----- W1 (D) -----	WATER: CITY OF
----- WW1 -----	WASTE WATER: CITY OF
----- WW1 (C) ----- WW1 (C) ----- WW1 -----	WASTE WATER: CITY OF
----- WW1 (D) ----- WW1 (D) ----- WW1 -----	WASTE WATER: CITY OF

QUALITY LEVEL LEGEND

----- WW1 -----	QUALITY LEVEL 'B'
----- WW1 (C) ----- WW1 (C) ----- WW1 -----	QUALITY LEVEL 'C'
----- WW1 (D) ----- WW1 (D) ----- WW1 -----	QUALITY LEVEL 'D'

TYPICAL FOR ALL UTILITIES

EXISTING OR PROPOSED

----- CTV1 -----	EXISTING UG
----- OE1/T2/CTV1 -----	EXISTING OH
----- OE1/T2/CTV1 -----	PROPOSED OH
----- CTV1 -----	PROPOSED UG

TYPICAL FOR ALL COMCAST

----- WW1 -----	EXISTING
----- WW1 -----	PROPOSED

TYPICAL FOR ALL UTILITIES

- ⊠ ELECTRICAL TRANSFORMER BOX
- E ELECTRICAL POWER BOX
- ⊠ TRAFFIC SIGNAL LIGHT
- TRAFFIC SIGNAL POWER BOX
- POWER POLE
- ⊠ LIGHT POLE
- ⊠ TELEPHONE MANHOLE
- ⊠ TELEPHONE VAULT
- ⊠ TELEPHONE PEDESTAL

- HYDRANT
- ⊠ WATER MANHOLE
- ⊠ WATER VALVE
- ⊠ WATER METER
- ⊠ WATER VAULT
- ⊠ WASTE WATER MANHOLE
- ⊠ CLEAN OUT
- ⊠ GAS METER
- END OF LINE
- ~ OUT OF SCOPE



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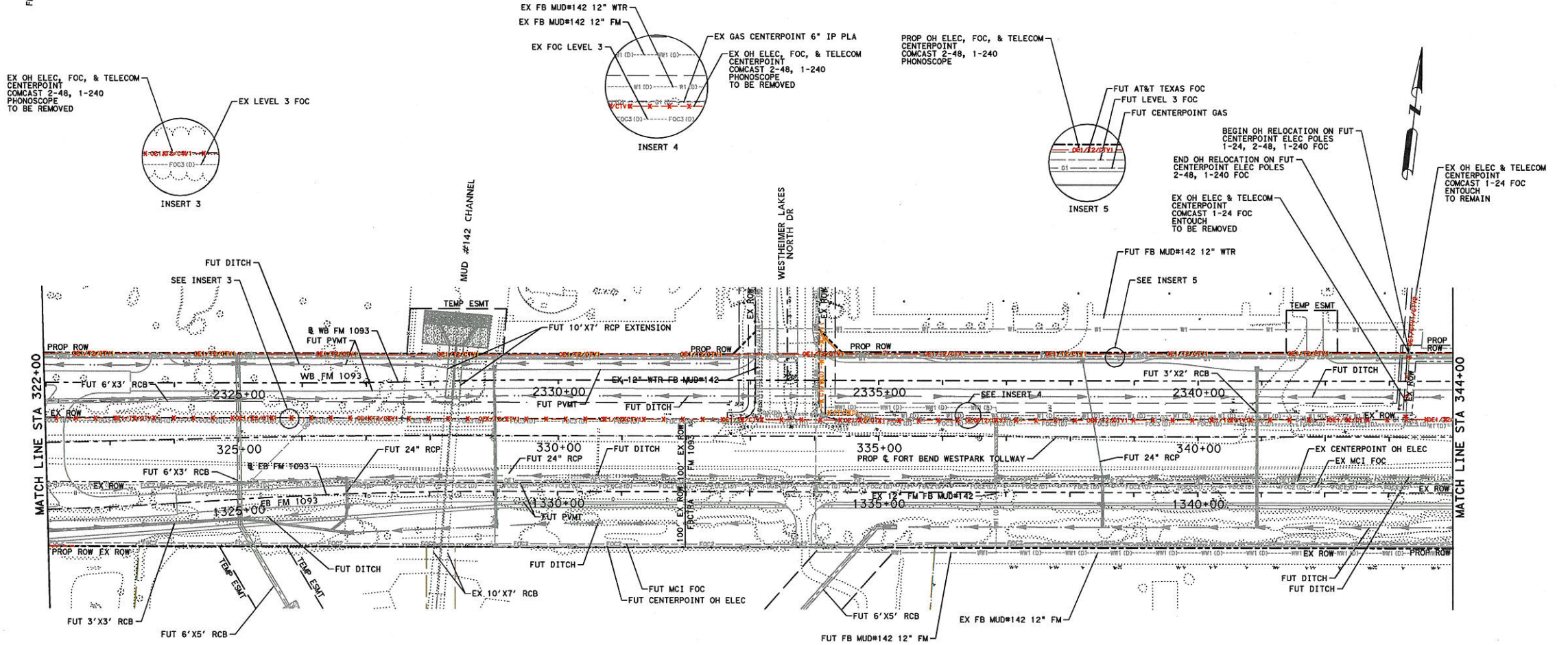
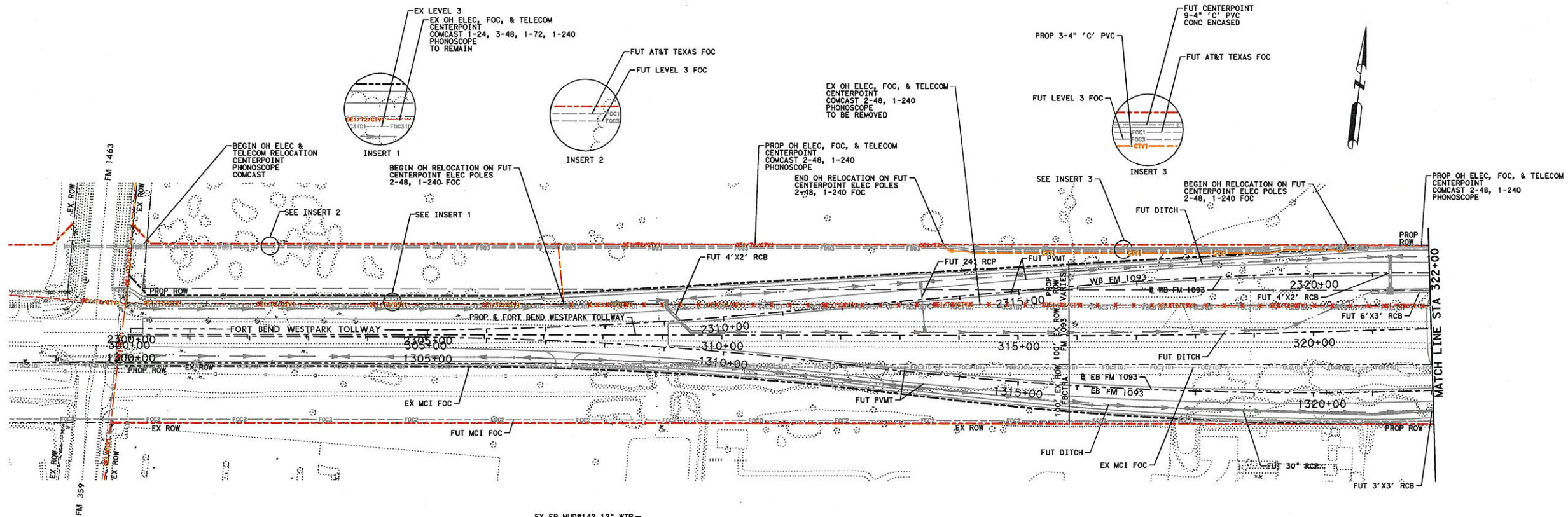
FM 1093 WESTPARK EXTENSION
 LEGEND

SHT 1 OF 1

SCALE: NTS	DRAWN BY EMC	SHEET 6
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11/12/2015
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NOTE:
SEE SHT 2 FOR OVERALL
UNDERGROUND PLAN.



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FM 1093 WESTPARK EXTENSION
 OVERHEAD CABLE INSTALLATION
 AND REMOVAL LAYOUT
 SHT 1 OF 5

STA 300+00 TO STA 344+00

SCALE: PLAN: 1"=200'	DRAWN BY EMC	SHEET 7
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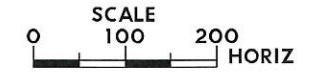
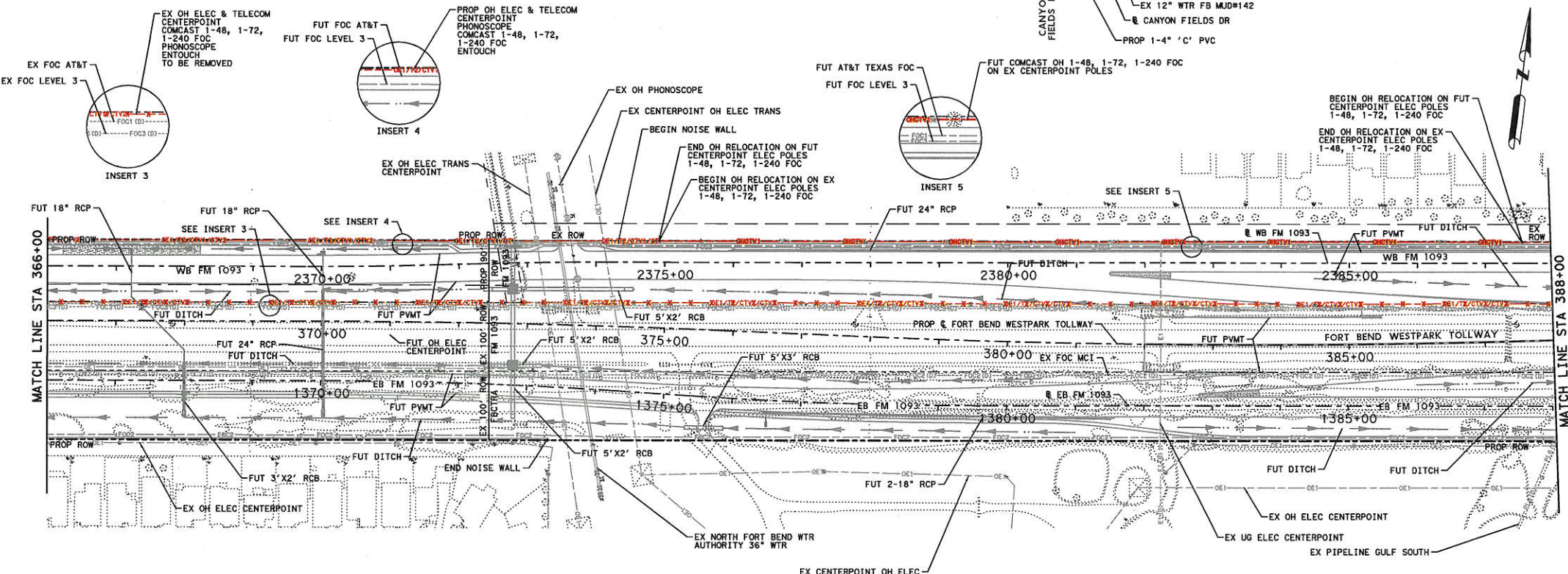
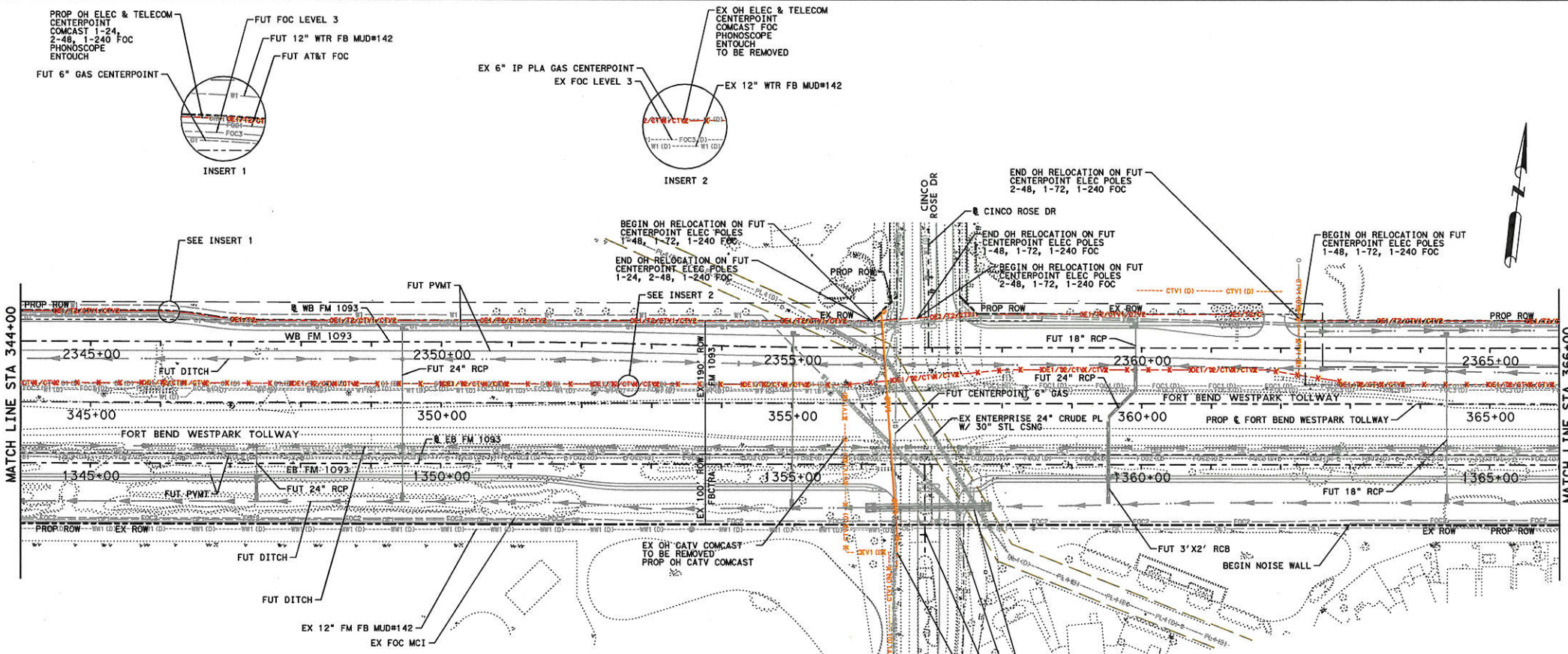
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 PROJECT: COMCAST

FM 1093 WESTPARK EXTENSION

11/12/2015
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NOTE:
SEE SHT 2 FOR OVERALL
UNDERGROUND PLAN.



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FM 1093 WESTPARK EXTENSION
 OVERHEAD CABLE INSTALLATION
 AND REMOVAL LAYOUT
 SHT 2 OF 5

STA 344+00 TO STA 388+00
 SCALE: PLAN: 1"=200'
 DRAWN BY: EMC
 SHEET: 8

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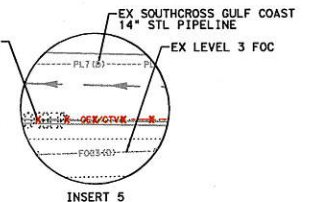
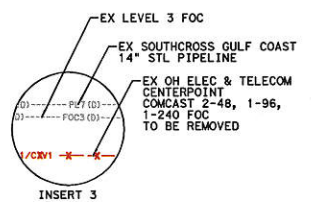
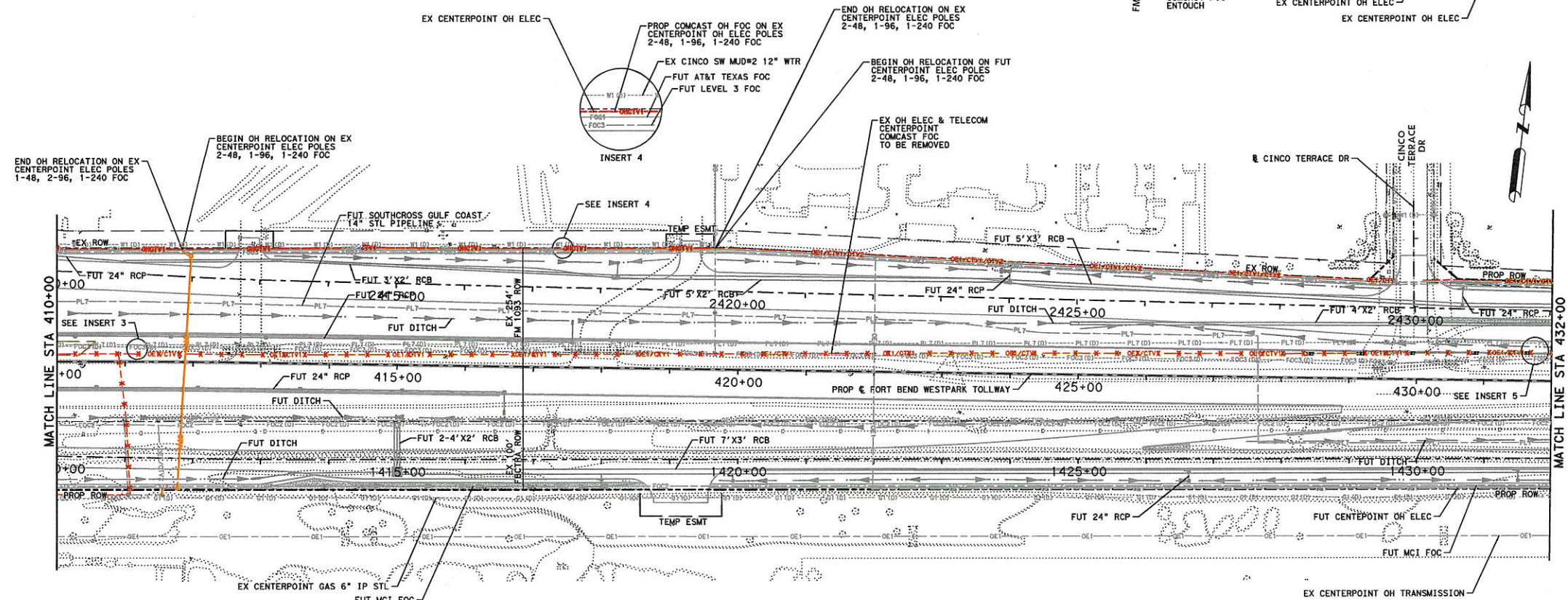
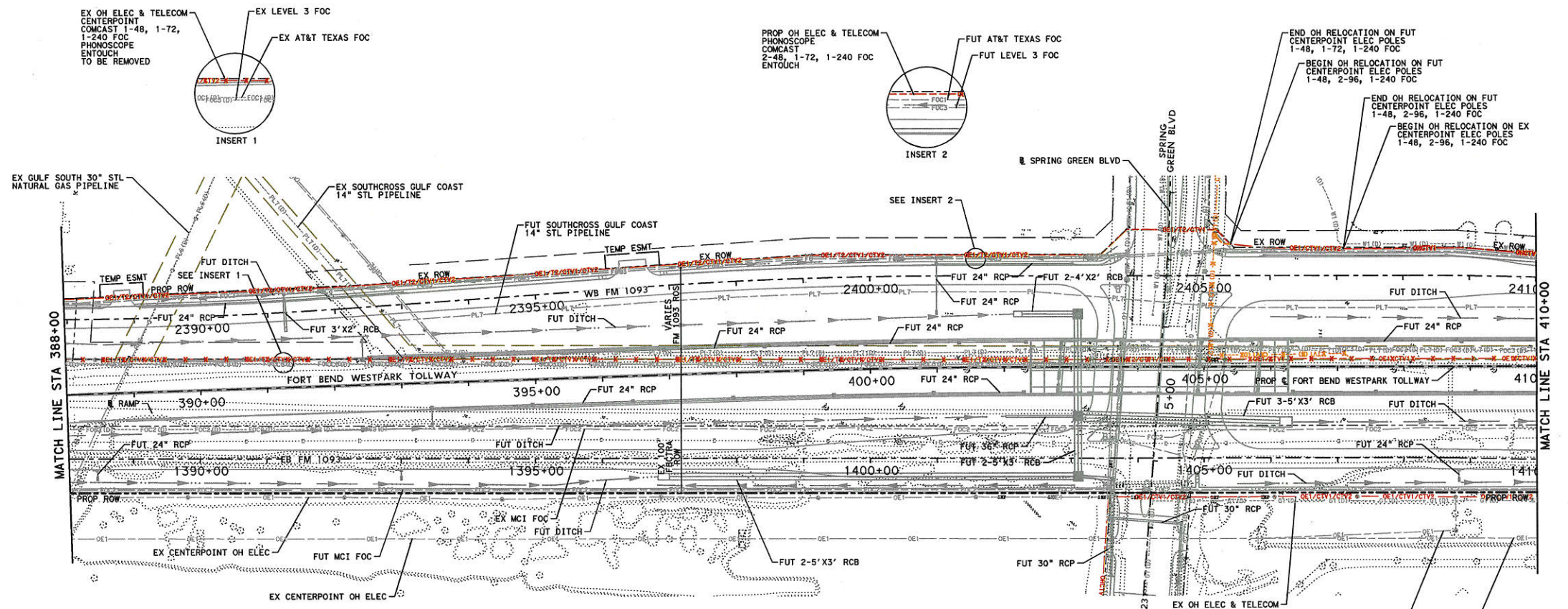
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FM 1093 WESTPARK EXTENSION

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NOTE:
SEE SHT 2 FOR OVERALL
UNDERGROUND PLAN.



INTERIM REVIEW
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Engineer: VINEETA JAYARAM
P.E. Serial No.: 101121
Date: 11/12/2015

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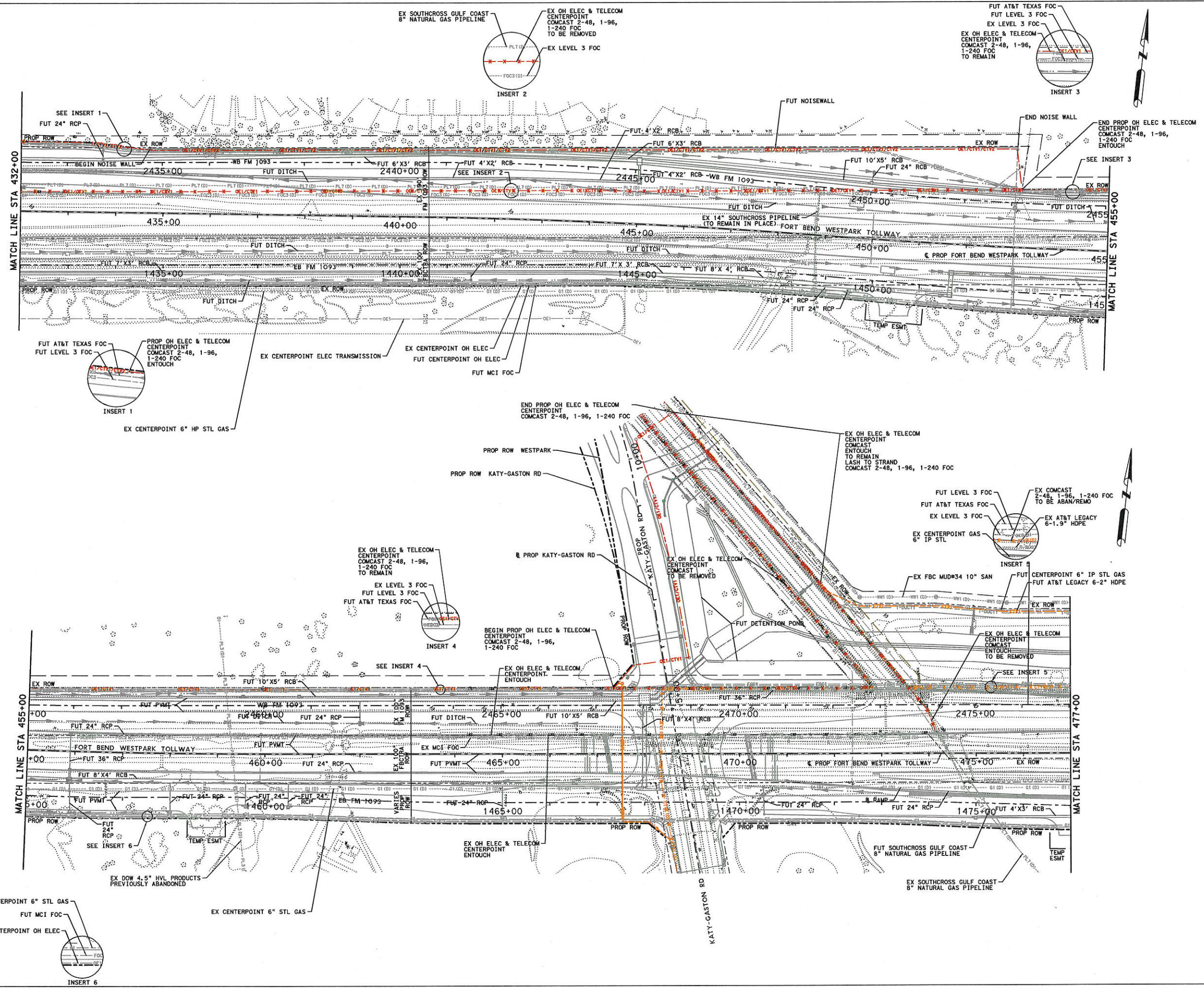
FM 1093 WESTPARK EXTENSION
OVERHEAD CABLE INSTALLATION
AND REMOVAL LAYOUT
SHT 3 OF 5

STA 388+00 TO STA 432+00
SCALE: PLAN 1"=200' DRAWN BY EMC SHEET 9

11/12/2015
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NOTE:
SEE SHT 2 FOR OVERALL
UNDERGROUND PLAN.



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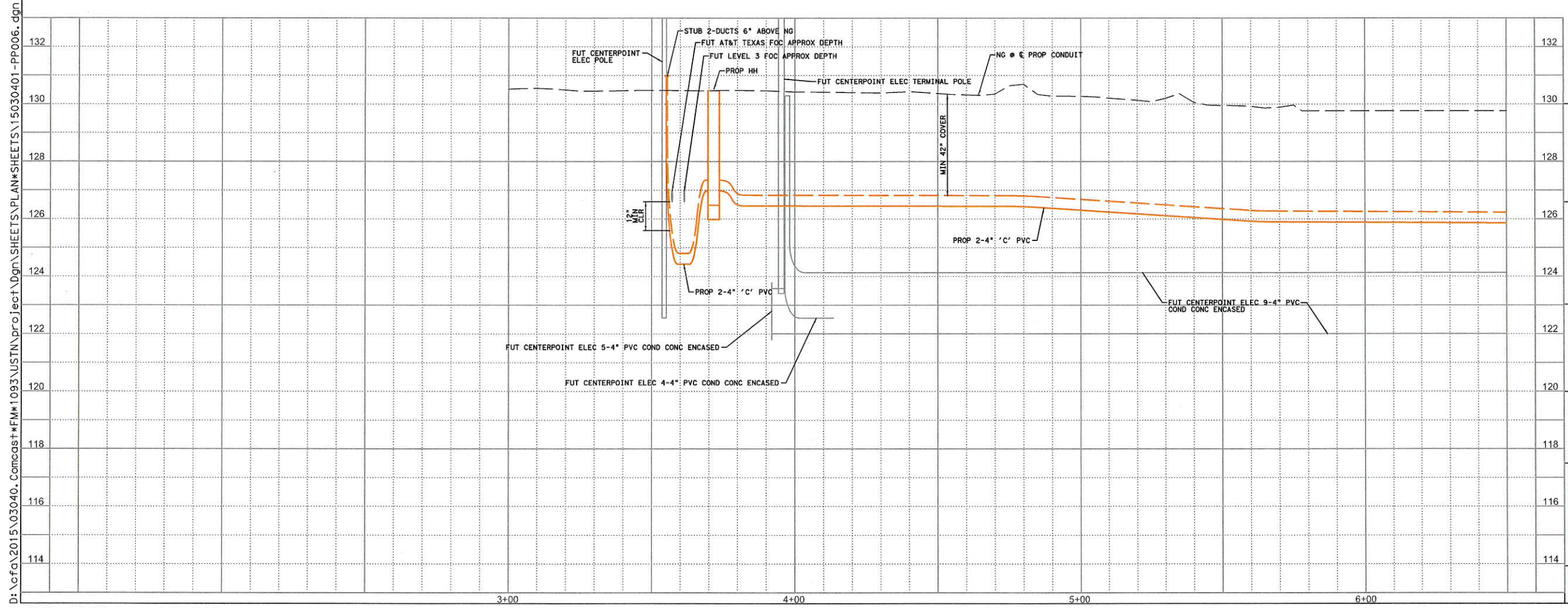
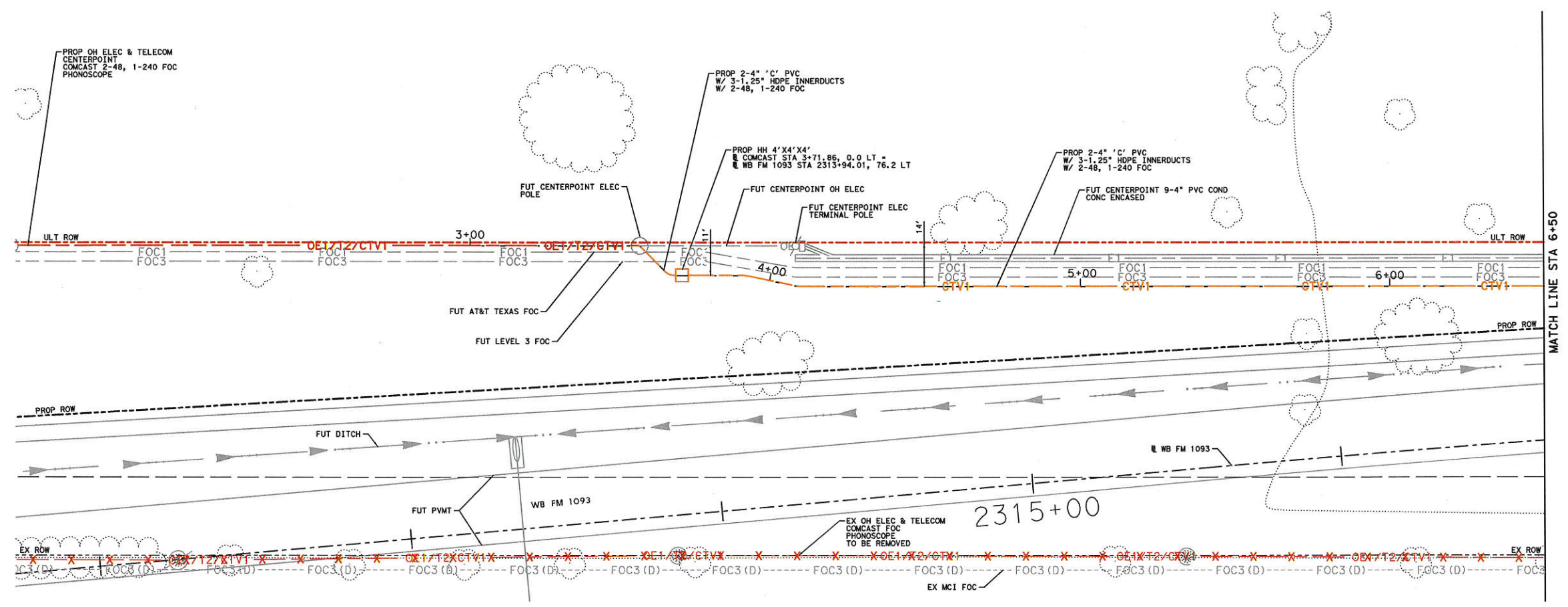
FM 1093 WESTPARK EXTENSION
 OVERHEAD CABLE INSTALLATION
 AND REMOVAL LAYOUT
 SHT 4 OF 5

STA 432+00 TO STA 477+00	SCALE: PLAN: 1"=200'	DRAWN BY EMC	SHEET 10
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FM 1093 WESTPARK EXTENSION

11/12/2015 3:35:56 PM

NOTE:
ALL CENTERPOINT ELECTRIC POLE LOCATIONS ARE BASED ON PRELIMINARY DESIGN. CONTRACTOR TO CONTACT GARY BRAXTON AT (713) 945-4583 PRIOR TO CONSTRUCTION TO CONFIRM POLE LOCATIONS.



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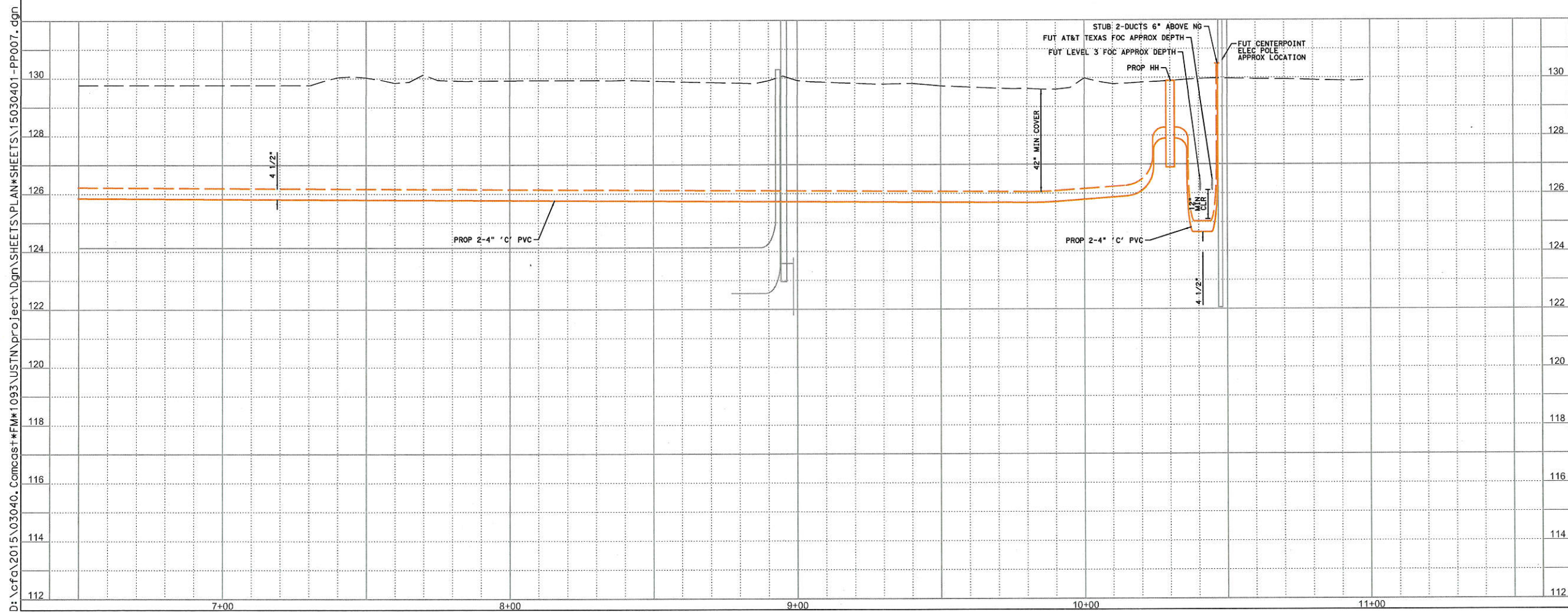
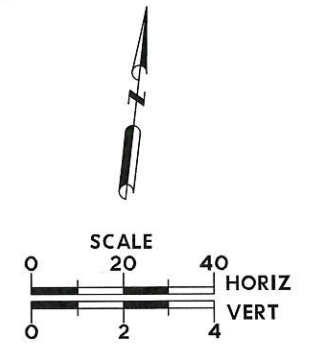
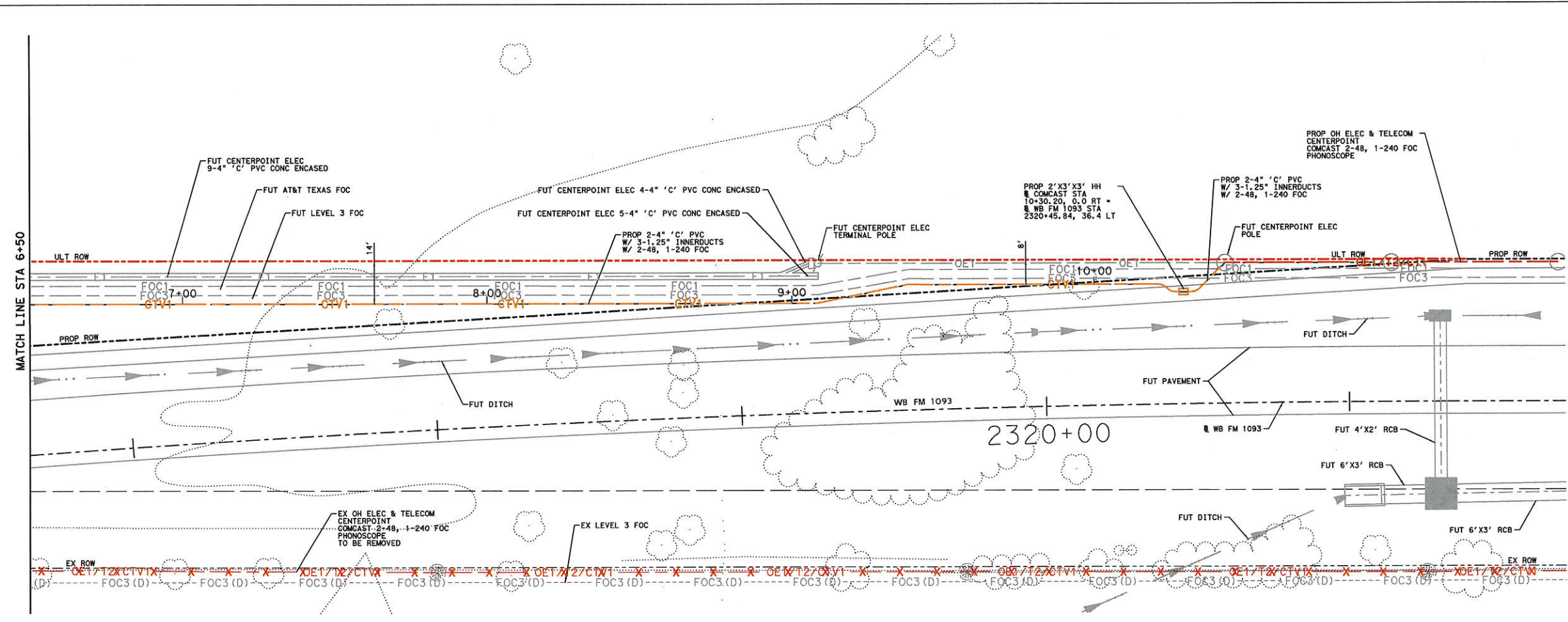
FM 1093 WESTPARK EXTENSION
 WESTPARK N ROW
 PLAN & PROFILE
 SHT 1 OF 16

STA 1+50 TO STA 6+50
 SCALE: PLAN: 1"=40'
 PROFILE VERT: 1"=4'
 PROFILE HORZ: 1"=40'
 DRAWN BY: EMC
 SHEET: 12

FM 1093 WESTPARK EXTENSION

11/12/2015
3:35:57 PM

NOTE:
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FM 1093 WESTPARK EXTENSION
WESTPARK N ROW
PLAN & PROFILE
SHT 2 OF 16

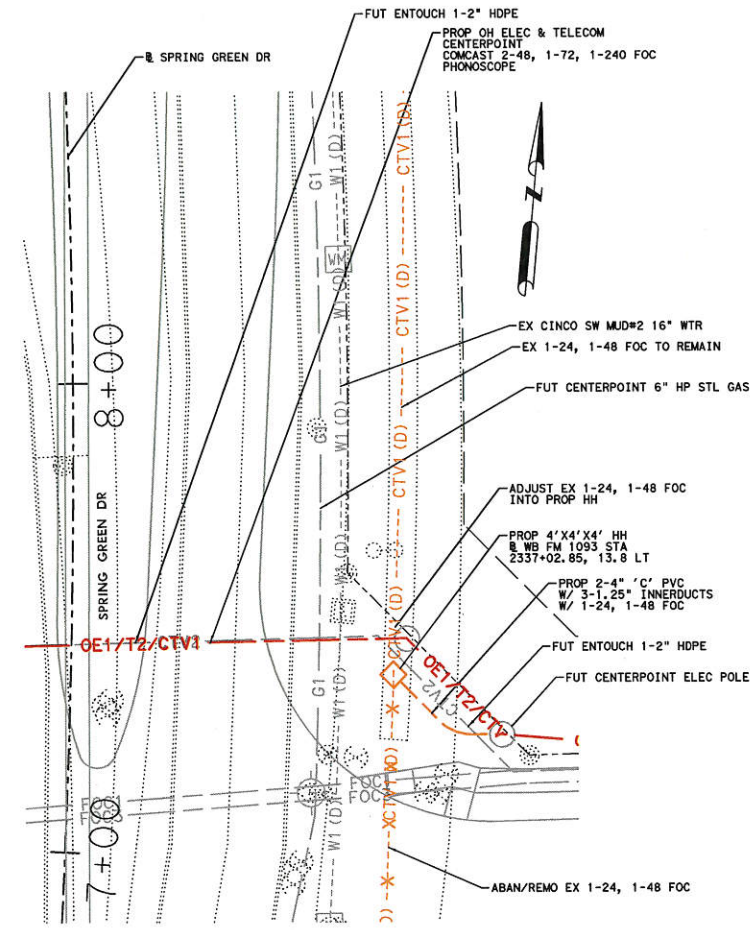
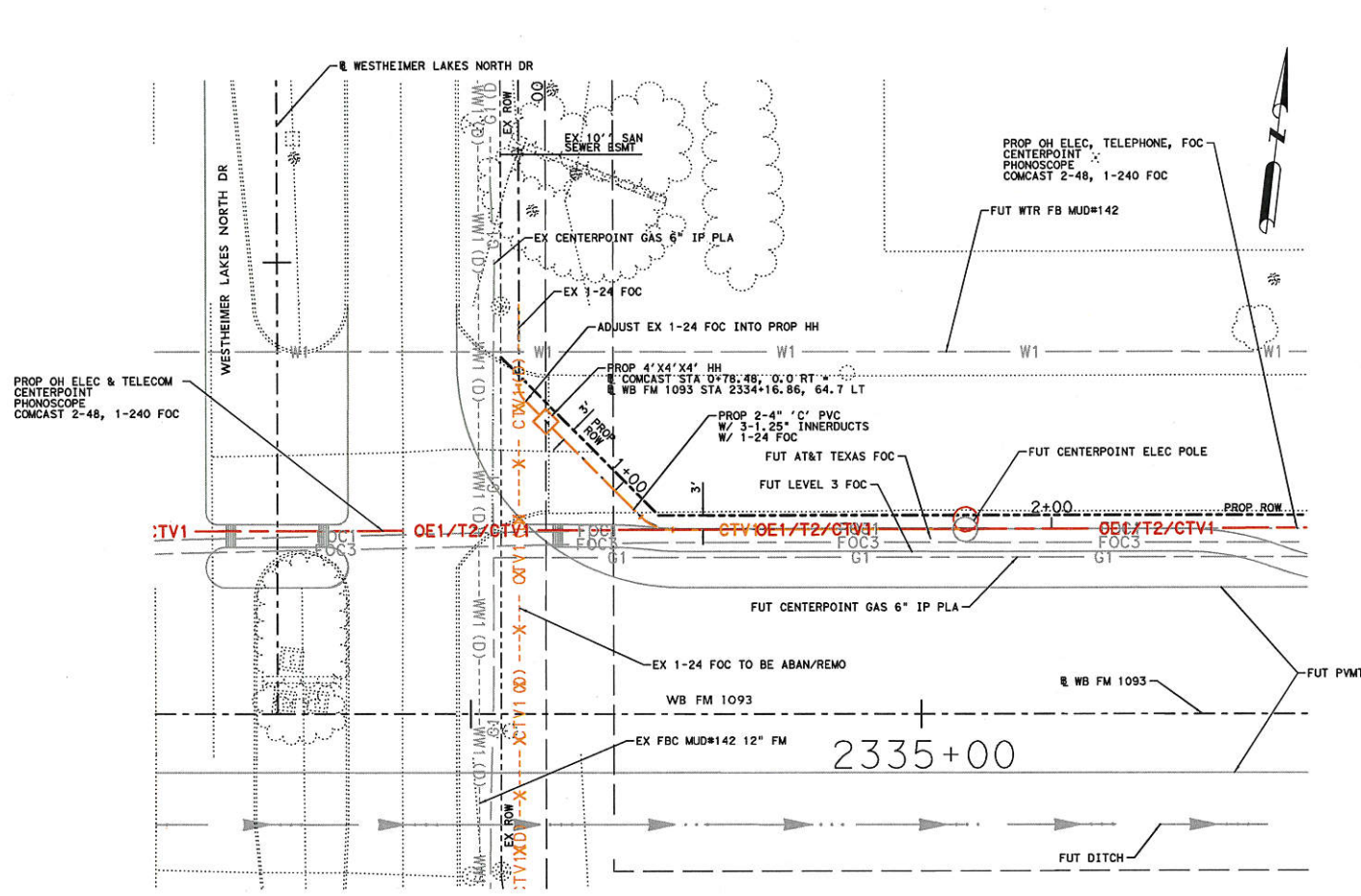
STA 6+50 TO STA 11+50
SCALE: PLAN: 1"=40'
PROFILE VERT: 1"=4'
PROFILE HORZ: 1"=40'
DRAWN BY: EMC
SHEET: 13

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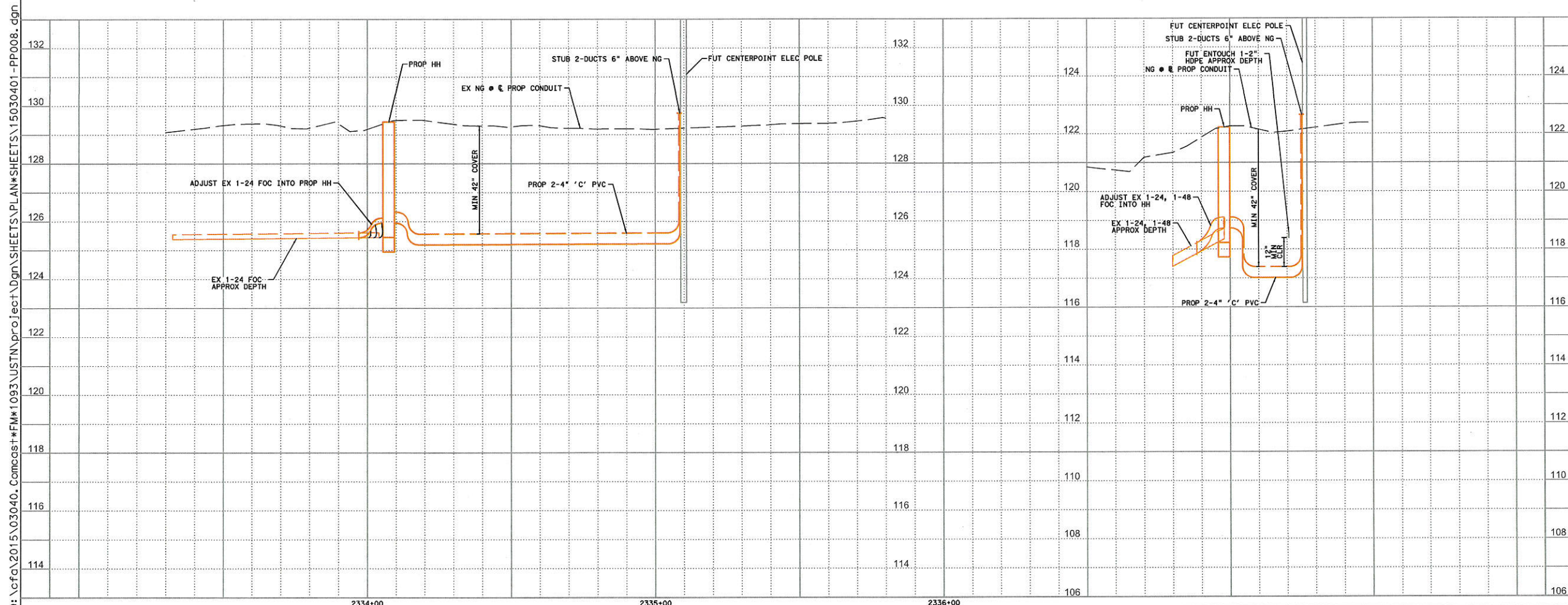
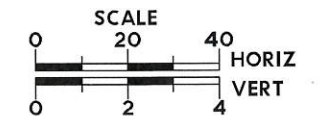
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PROJECT: COMCAST

FM 1093 WESTPARK EXTENSION

11/12/2015 3:36:00 PM



NOTE:
ALL CENTERPOINT ELECTRIC POLE
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BRAXTON AT (713) 945-4583 PRIOR TO
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FM 1093 WESTPARK EXTENSION
WESTHEIMER L. N. & SPRING G.
PLAN & PROFILE
SHT 3 OF 16

STA 2334+11 & STA 2405+18

SCALE: PLAN 1"=40' PROFILE VERT: 1"=4' PROFILE HORZ: 1"=40'	DRAWN BY EMC	SHEET 14
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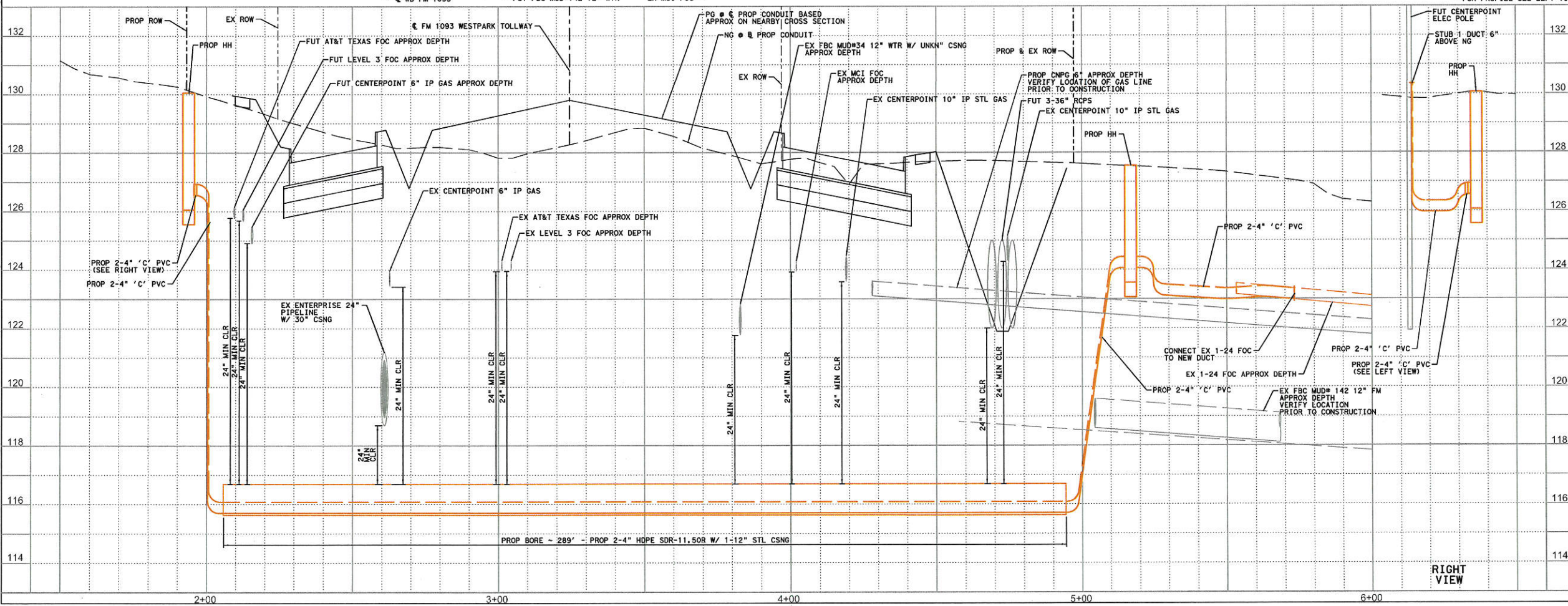
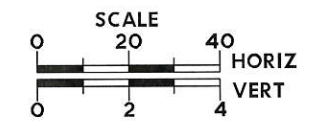
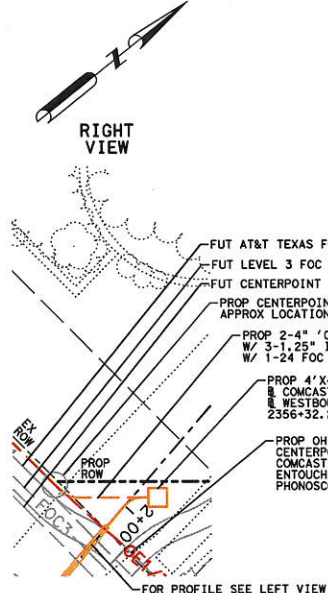
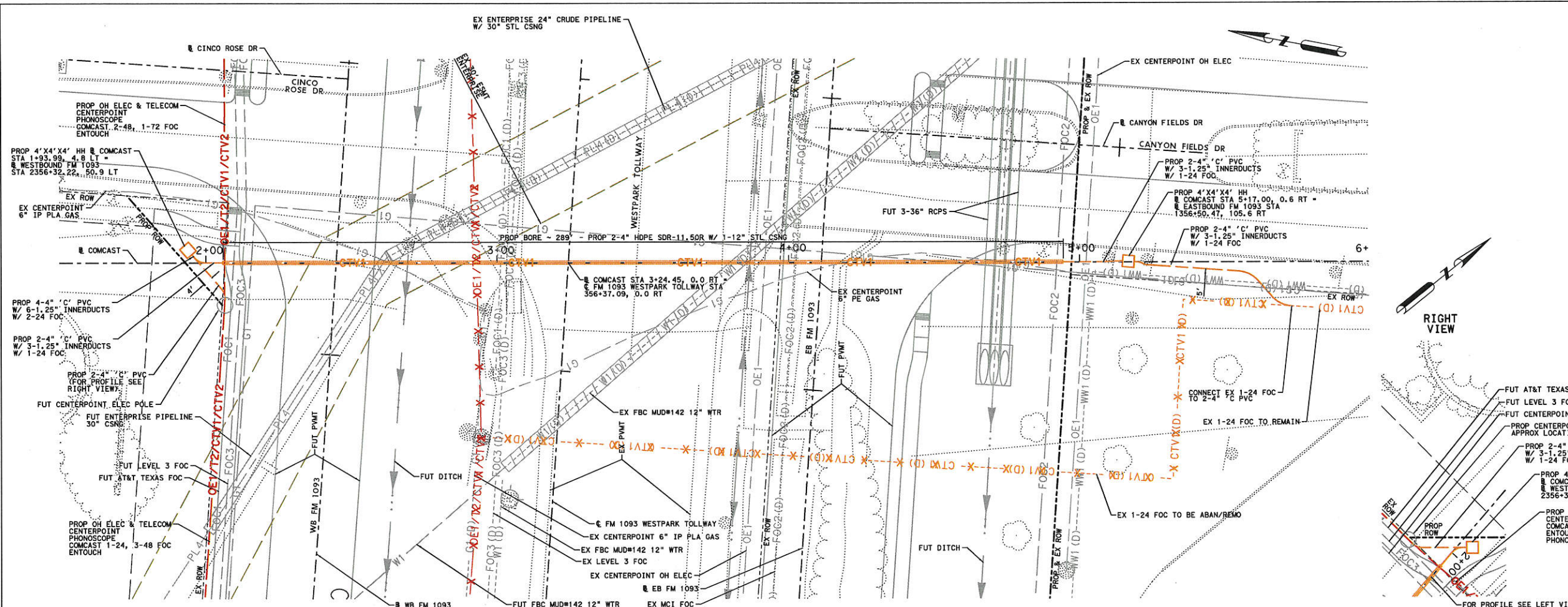
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PROJECT: COMCAST

FM 1093 WESTPARK EXTENSION

11/12/2015
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NOTE:
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FM 1093 WESTPARK EXTENSION
CANYON FIELDS DR
PLAN & PROFILE
SHT 4 OF 16

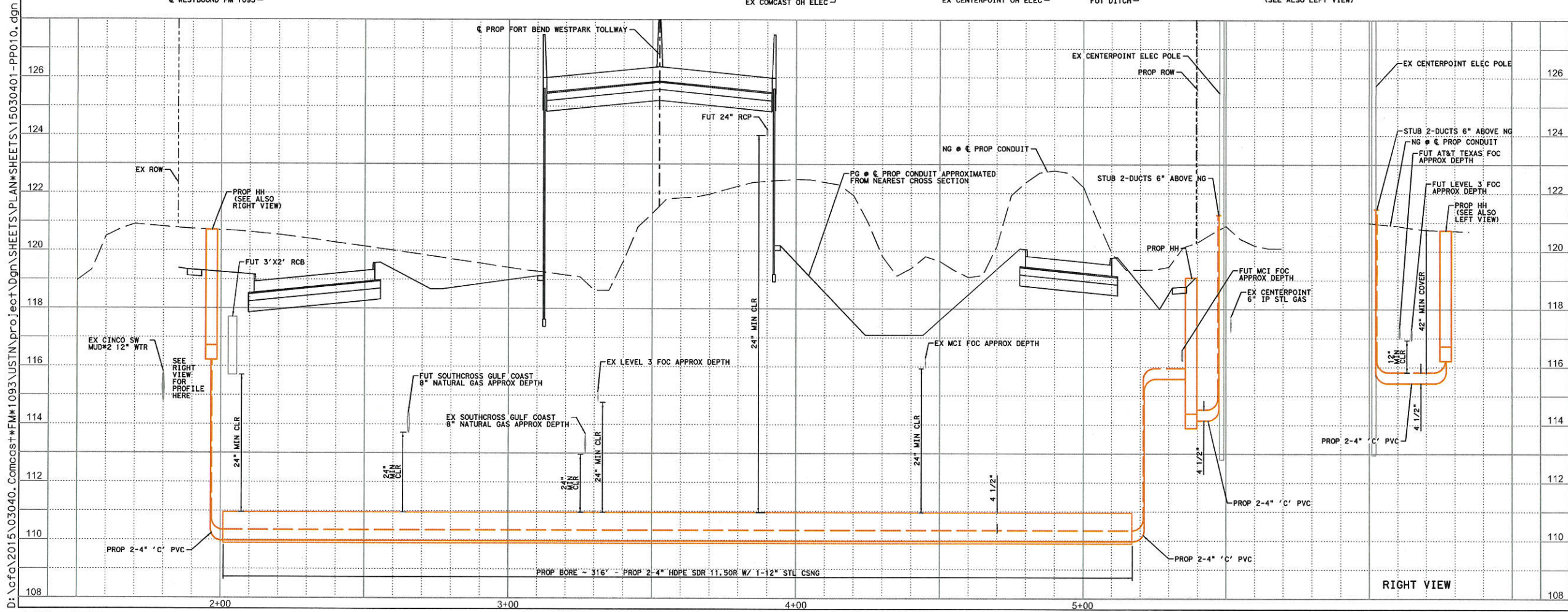
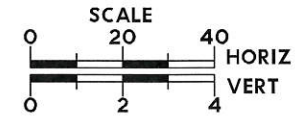
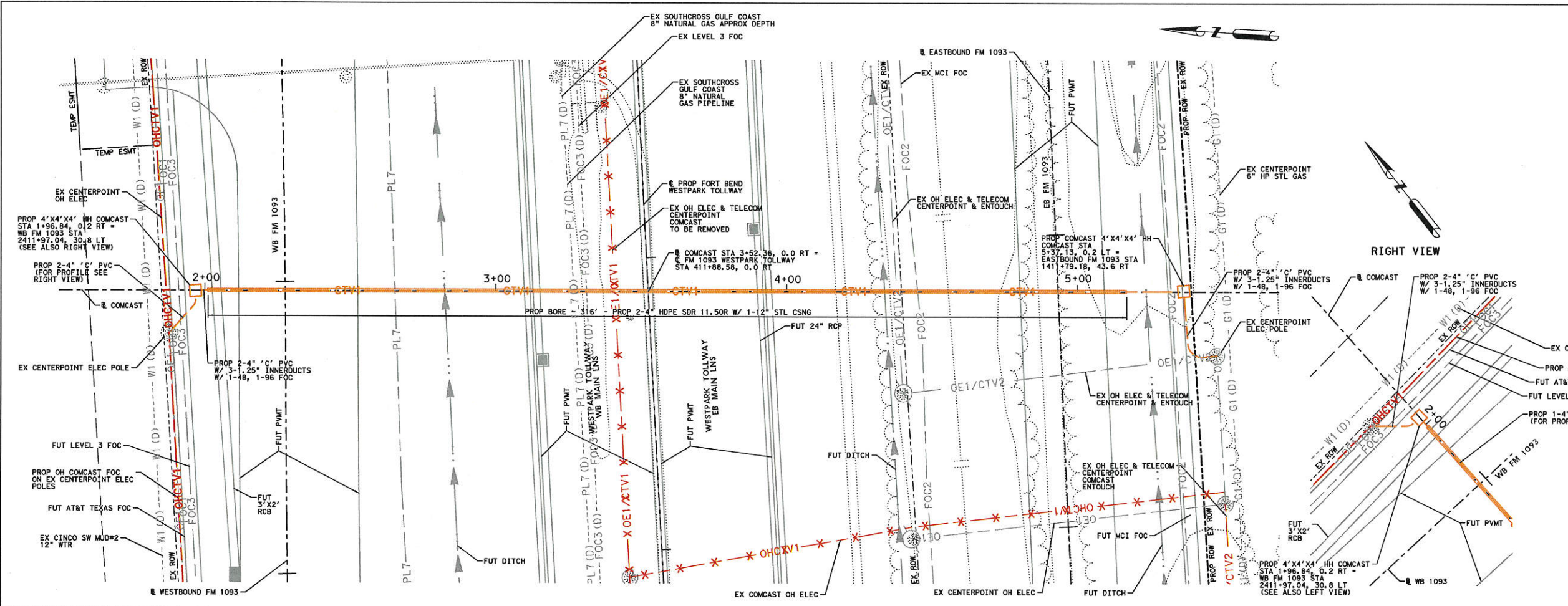
STA 356+43.08	DRAWN BY EMC	SHEET 15
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*USER: 150340*Comcast*FM1093*
PROJECT: COMCAST

FM 1093 WESTPARK EXTENSION

11/13/2015
9:17:13 AM

NOTE:
ALL CENTERPOINT ELECTRIC POLE
LOCATIONS ARE BASED ON PRELIMINARY
DESIGN. CONTRACTOR TO CONTACT GARY
BRAXTON AT (713) 945-4583 PRIOR TO
CONSTRUCTION TO CONFIRM POLE
LOCATIONS.



INTERIM REVIEW
Not intended for construction,
bidding or permit purposes.
Engineer: VINEETA JAYARAM
P.E. Serial No.: 101121
Date: 11/13/2015

CobbFendley
TSPS Firm Registration No. 274
TSPS Firm Registration No. 100467
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FM 1093 WESTPARK EXTENSION
SPRING GREEN BLVD
PLAN & PROFILE
SHT 5 OF 16

STA 411+88.58
SCALE: PLAN: 1"=40'
PROFILE VERT: 1"=4'
PROFILE HORZ: 1"=40'
DRAWN BY
EMC
SHEET
16

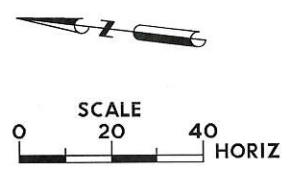
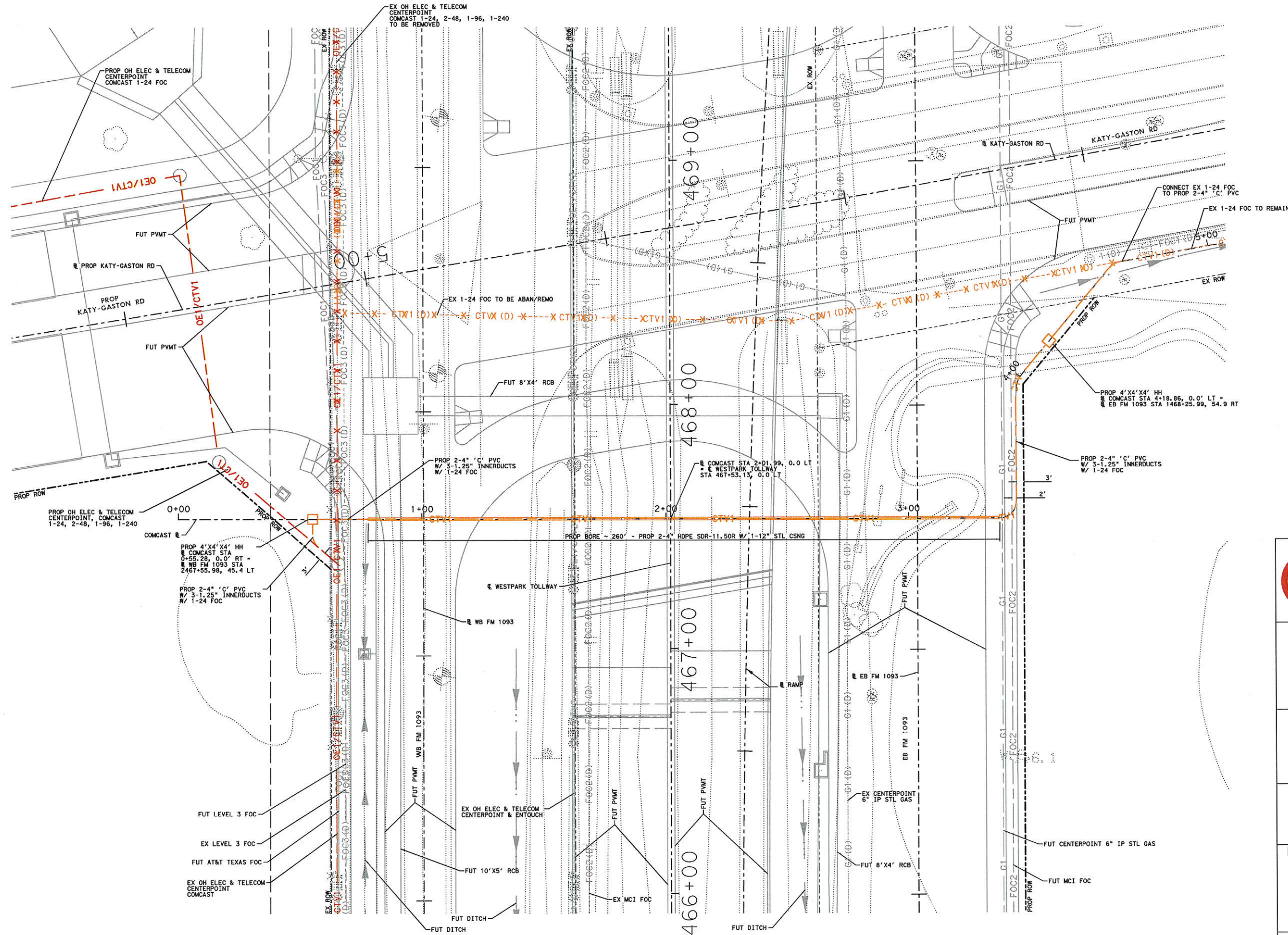
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*USER: 150340*Comcast*FM1093*
PROJECT: COMCAST

FM 1093 WESTPARK EXTENSION

11/12/2015
3:36:08 PM

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INTERIM REVIEW
 Not intended for construction,
 bidding or permit purposes.
 Engineer: VINEETA JAYARAM
 P.E. Serial No.: 101121
 Date: 11/12/2015

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FM 1093 WESTPARK EXTENSION
 KATY-GASTON RD
 PLAN & PROFILE
 SHT 6 OF 16

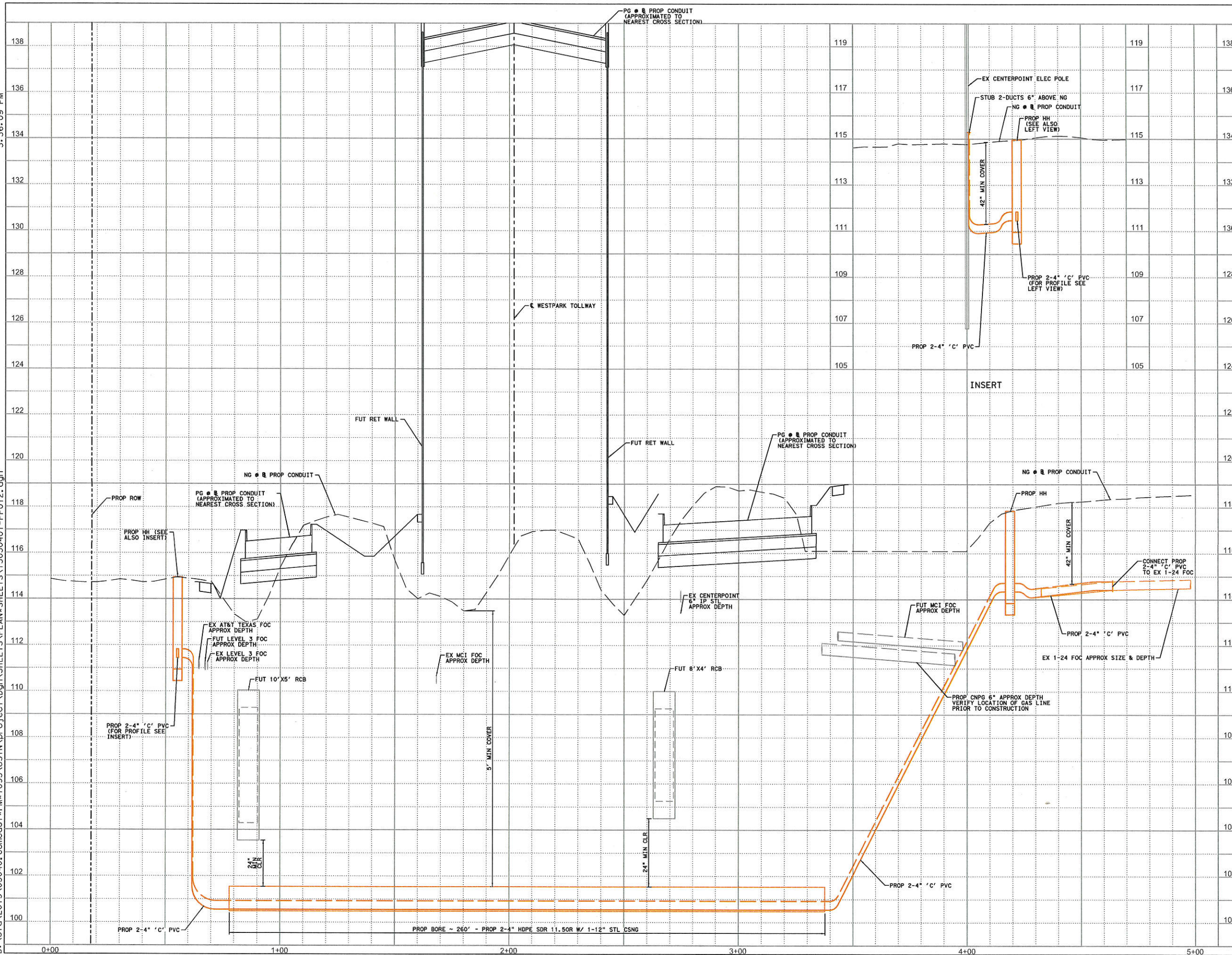
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*USER: 150340*Comcast*FM1093*
 PROJECT: COMCAST

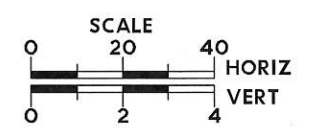
FM 1093 WESTPARK EXTENSION

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3:36:09 PM

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NOTE:
ALL CENTERPOINT ELECTRIC POLE
LOCATIONS ARE BASED ON PRELIMINARY
DESIGN. CONTRACTOR TO CONTACT GARY
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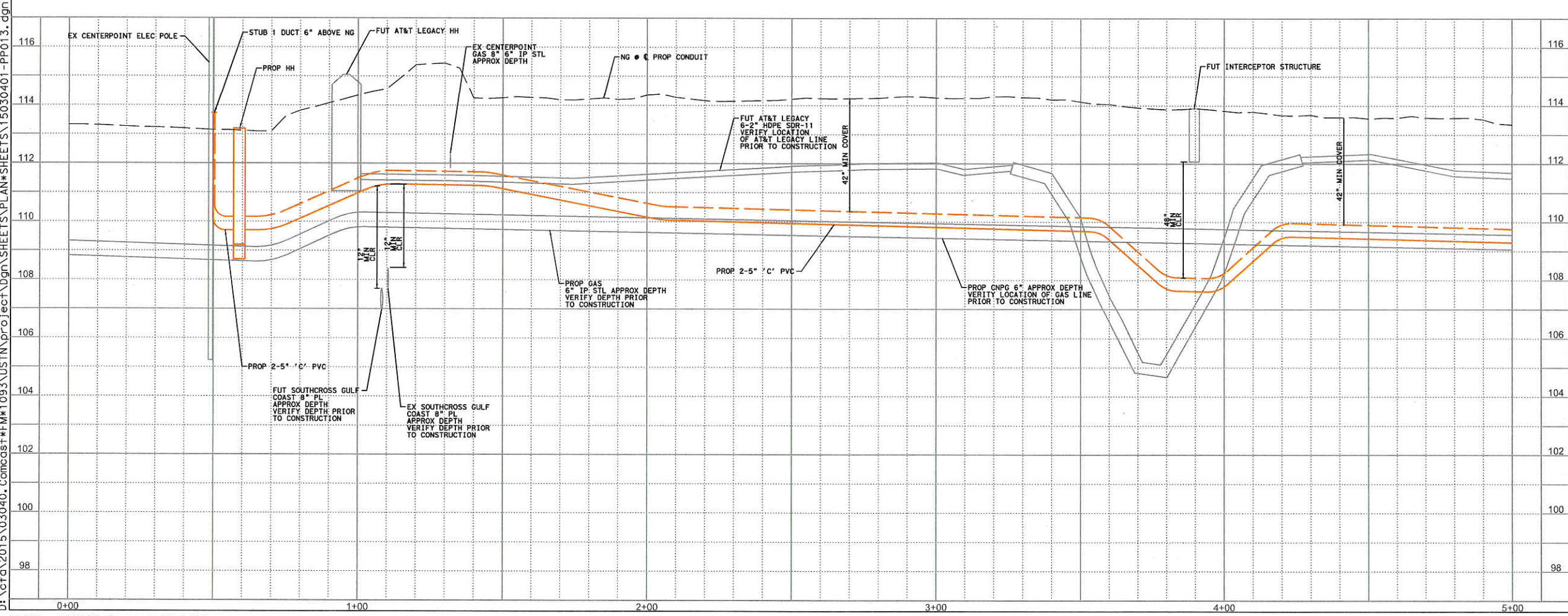
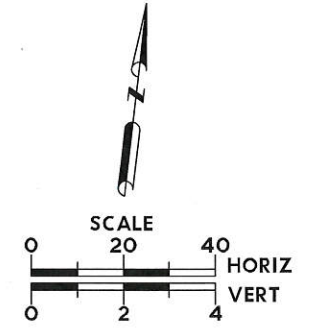
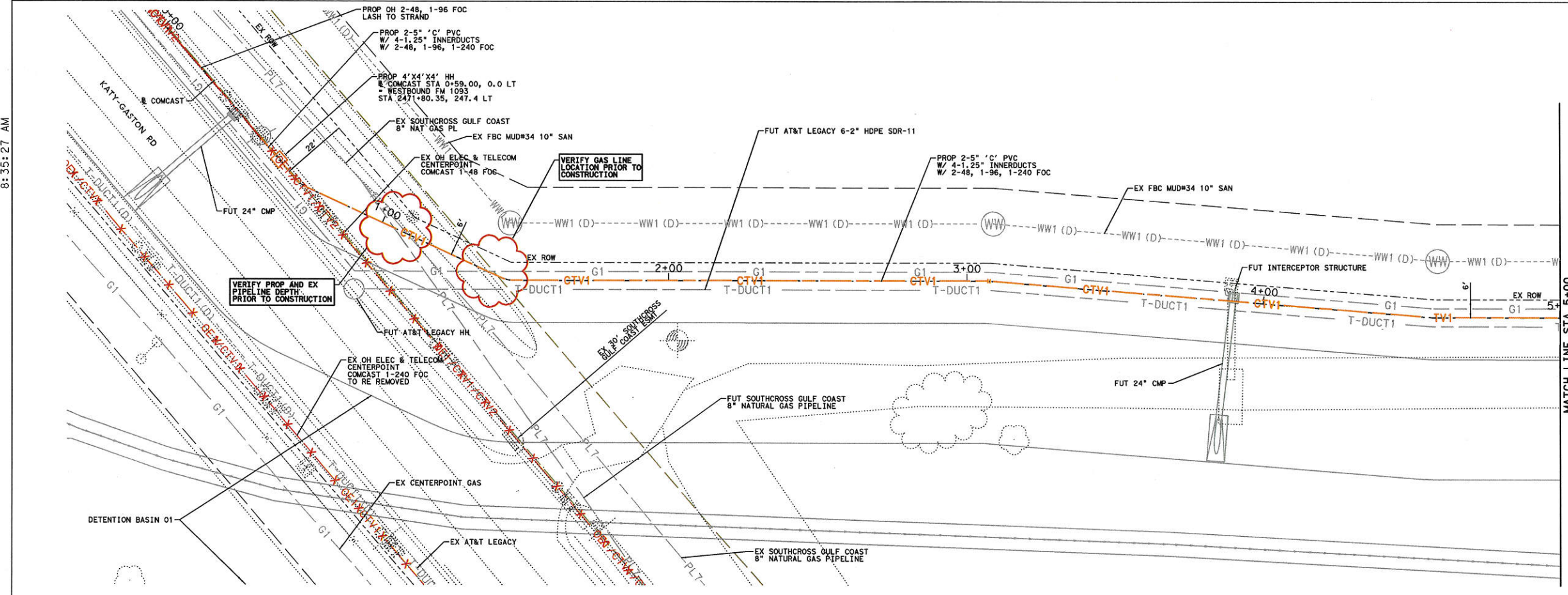
FM 1093 WESTPARK EXTENSION
KATY-GASTON RD
PLAN & PROFILE
SHT 7 OF 16

STA 467+53.13
SCALE: PROFILE VERT: 1"=4'
PROFILE HORIZ: 1"=40'
DRAWN BY: EMC
SHEET: 18

FM 1093 WESTPARK EXTENSION

11/13/2015
8:35:27 AM

NOTE:
ALL CENTERPOINT ELECTRIC POLE
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Engineer: VINEETA JAYARAM
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FM 1093 WESTPARK EXTENSION
WESTPARK N ROW
PLAN & PROFILE
SHT 8 OF 16

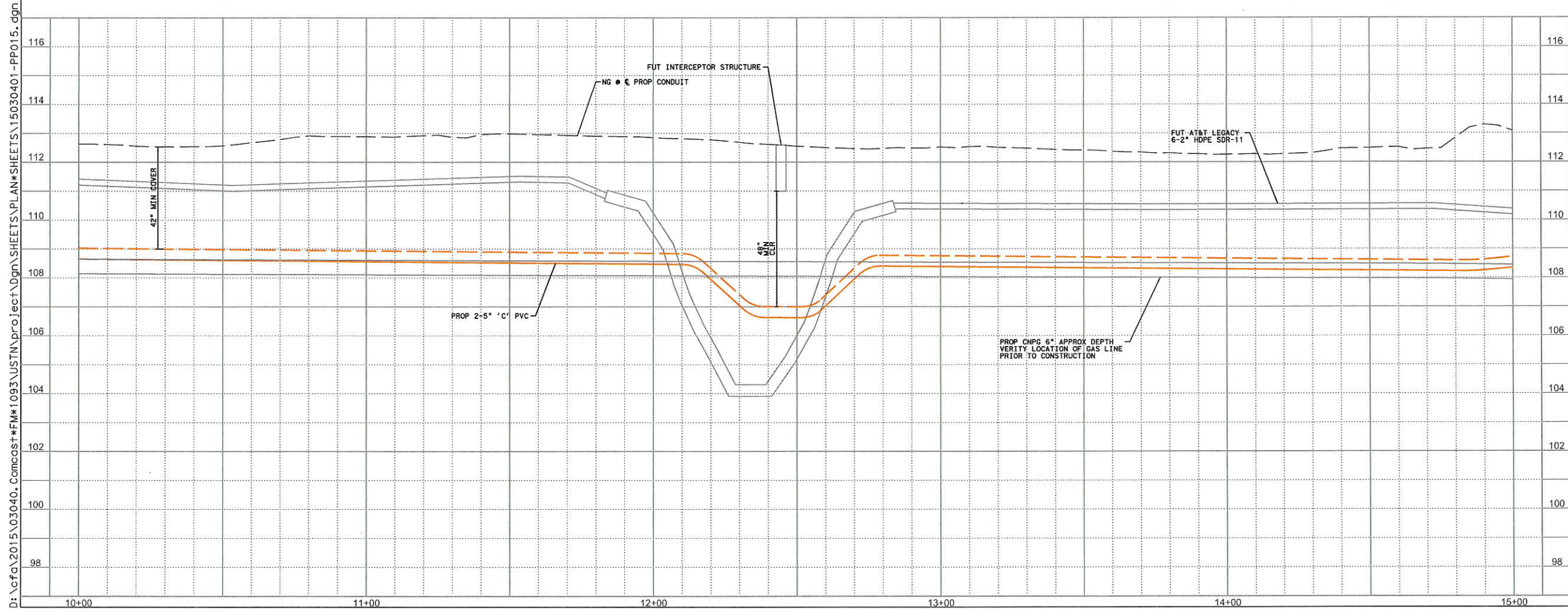
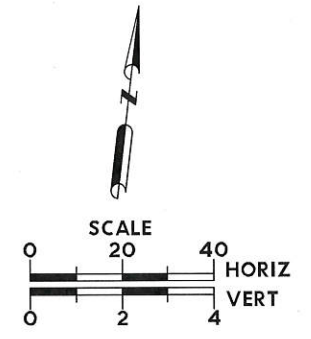
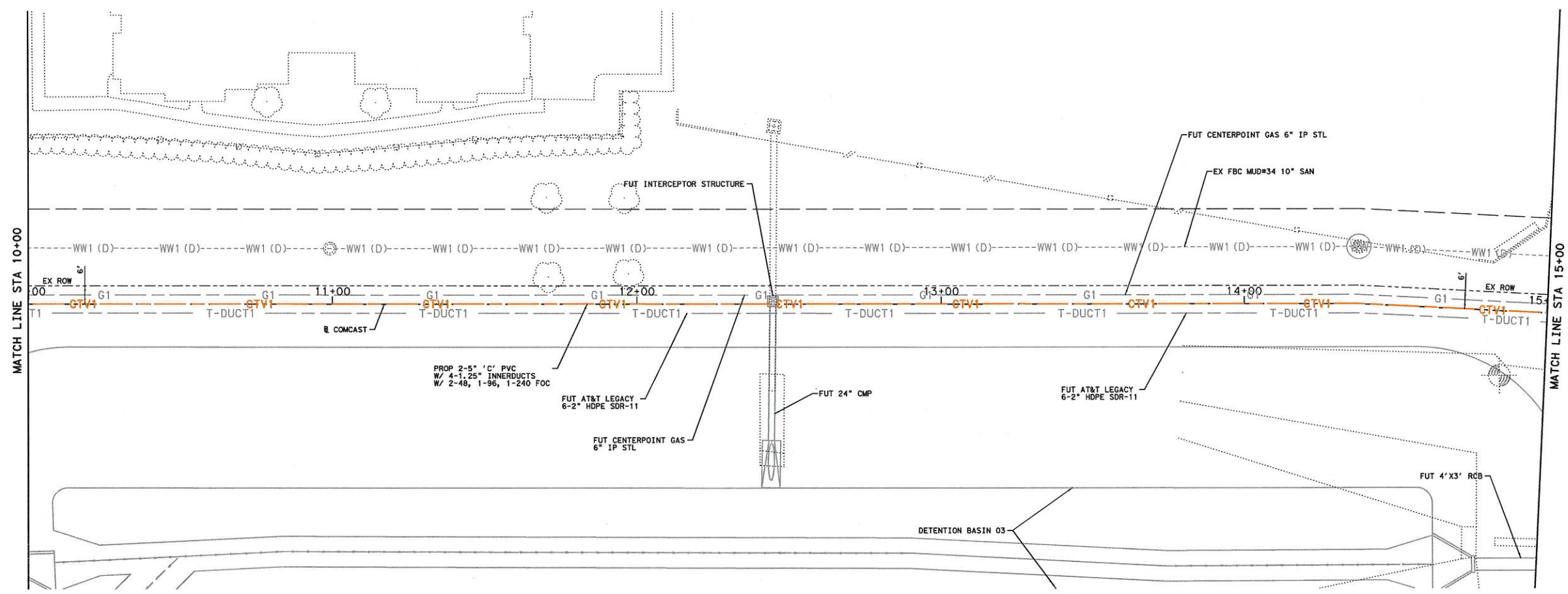
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SCALE: PLAN: 1"=40'
PROFILE VERT: 1"=4'
PROFILE HORZ: 1"=40'
DRAWN BY: EMC
SHEET: 19

*USER: 150340*Comcast*FM*1093*
PROJECT: COMCAST

FM 1093 WESTPARK EXTENSION

11/12/2015
3:36:14 PM

NOTE:
ALL CENTERPOINT ELECTRIC POLE
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INTERIM REVIEW
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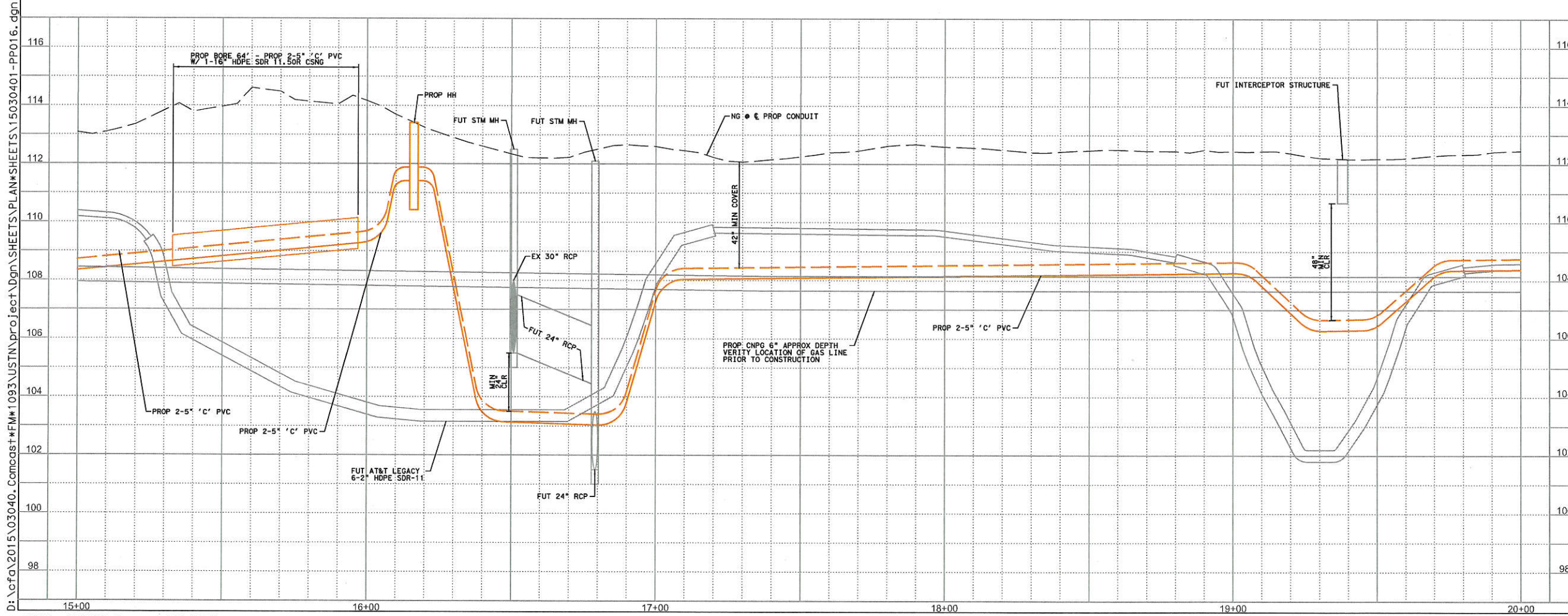
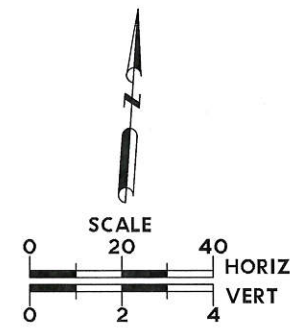
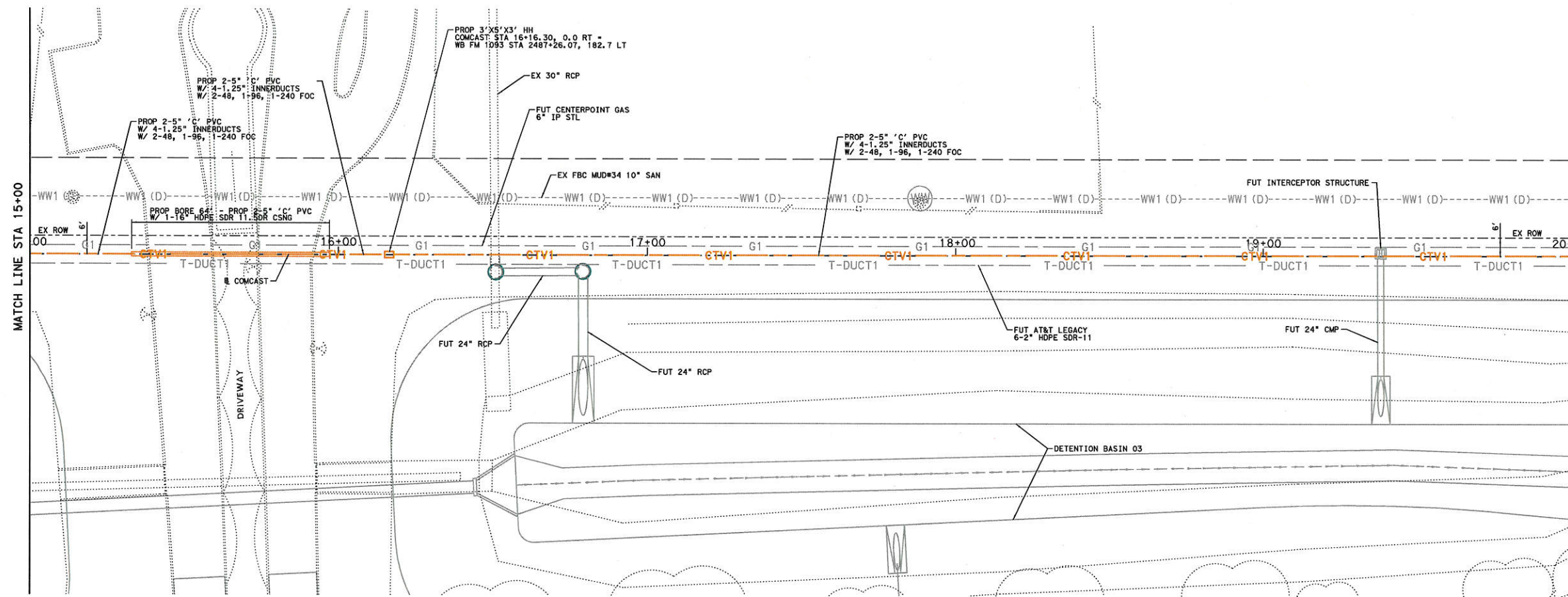
FM 1093 WESTPARK EXTENSION
WESTPARK N ROW
PLAN & PROFILE
SHT 10 OF 16

STA 10+00 TO STA 15+00
SCALE: PLAN: 1"=40'
PROFILE VERT: 1"=4'
PROFILE HORIZ: 1"=40'
DRAWN BY: EMC
SHEET: 21

FM 1093 WESTPARK EXTENSION

11/12/2015
4:06:45 PM

NOTE:
ALL CENTERPOINT ELECTRIC POLE
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INTERIM REVIEW
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FM 1093 WESTPARK EXTENSION
WESTPARK N ROW
PLAN & PROFILE
SHT 11 OF 16

STA 15+00 TO STA 20+00
SCALE: PLAN: 1"=40'
PROFILE VERT: 1"=4'
PROFILE HORIZ: 1"=40'

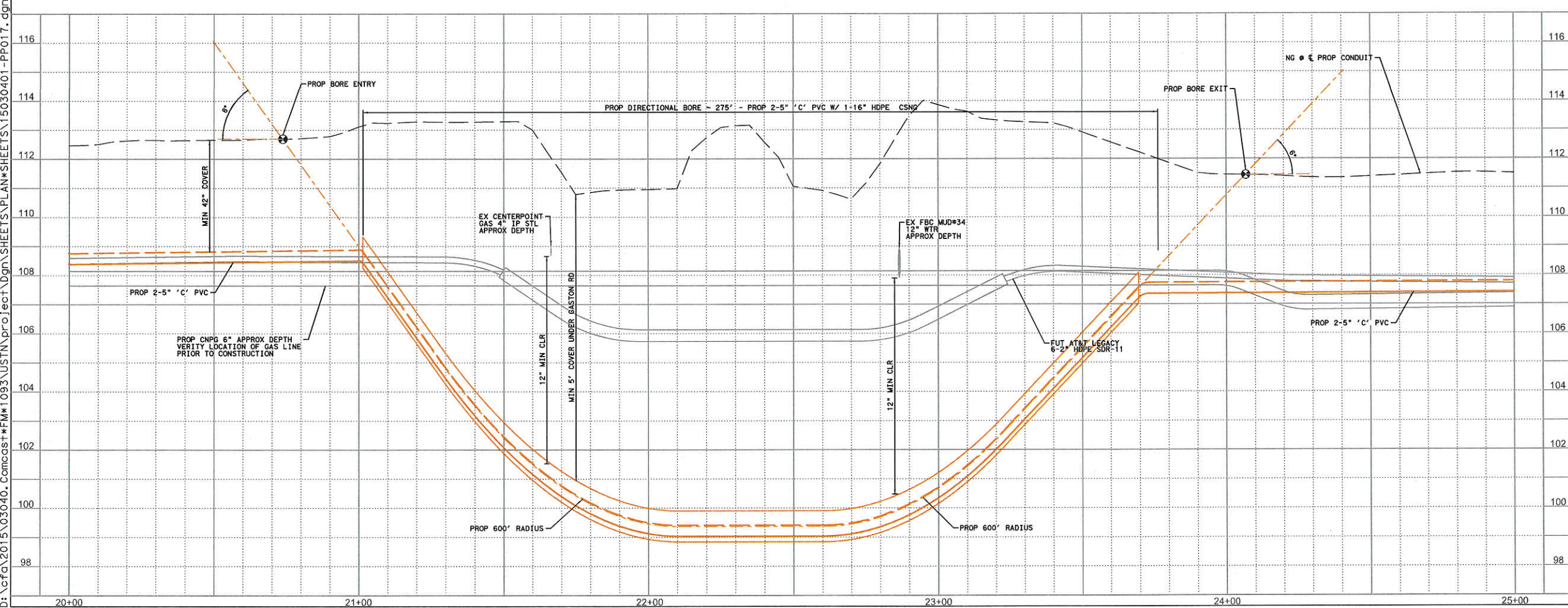
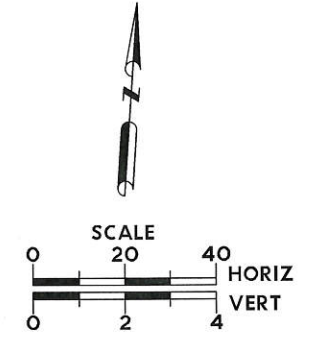
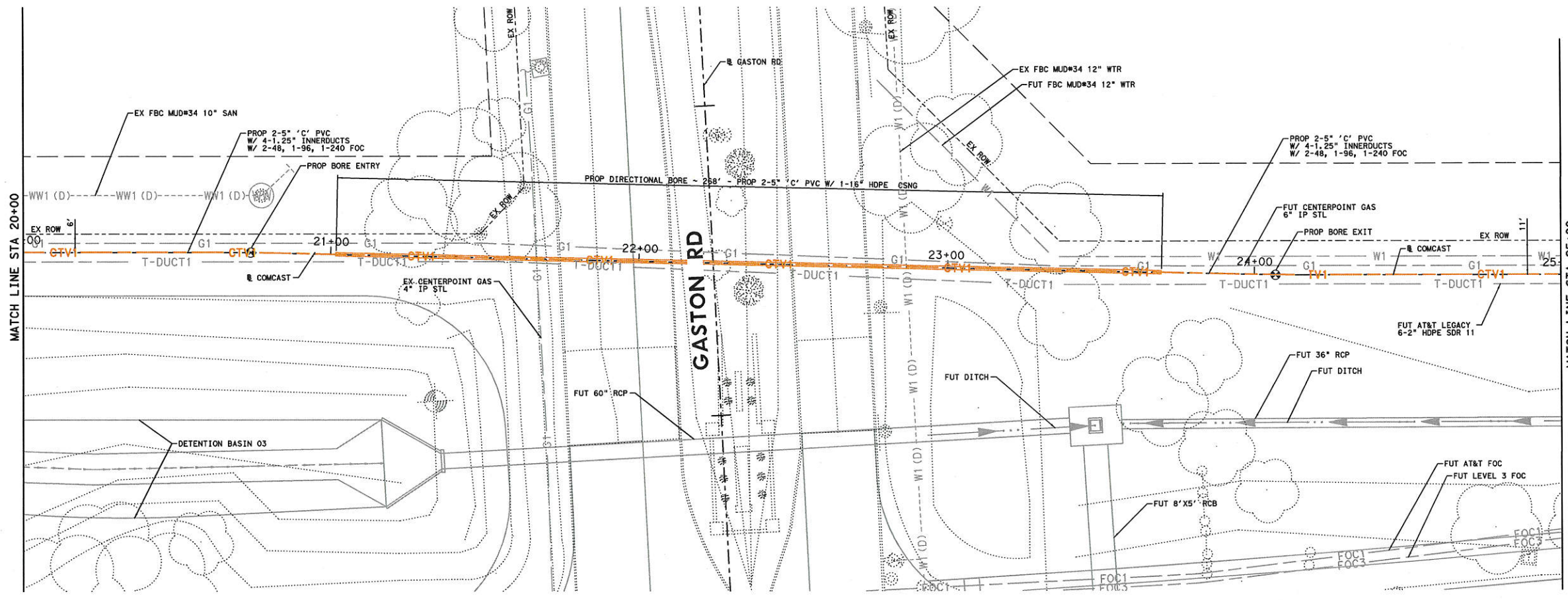
DRAWN BY
EMC
SHEET
22

*USER: 150340*Comcast*FM*1093*
PROJECT: COMCAST

FM 1093 WESTPARK EXTENSION

11/12/2015
3:36:16 PM

NOTE:
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FM 1093 WESTPARK EXTENSION
WESTPARK N ROW
PLAN & PROFILE
SHT 12 OF 16

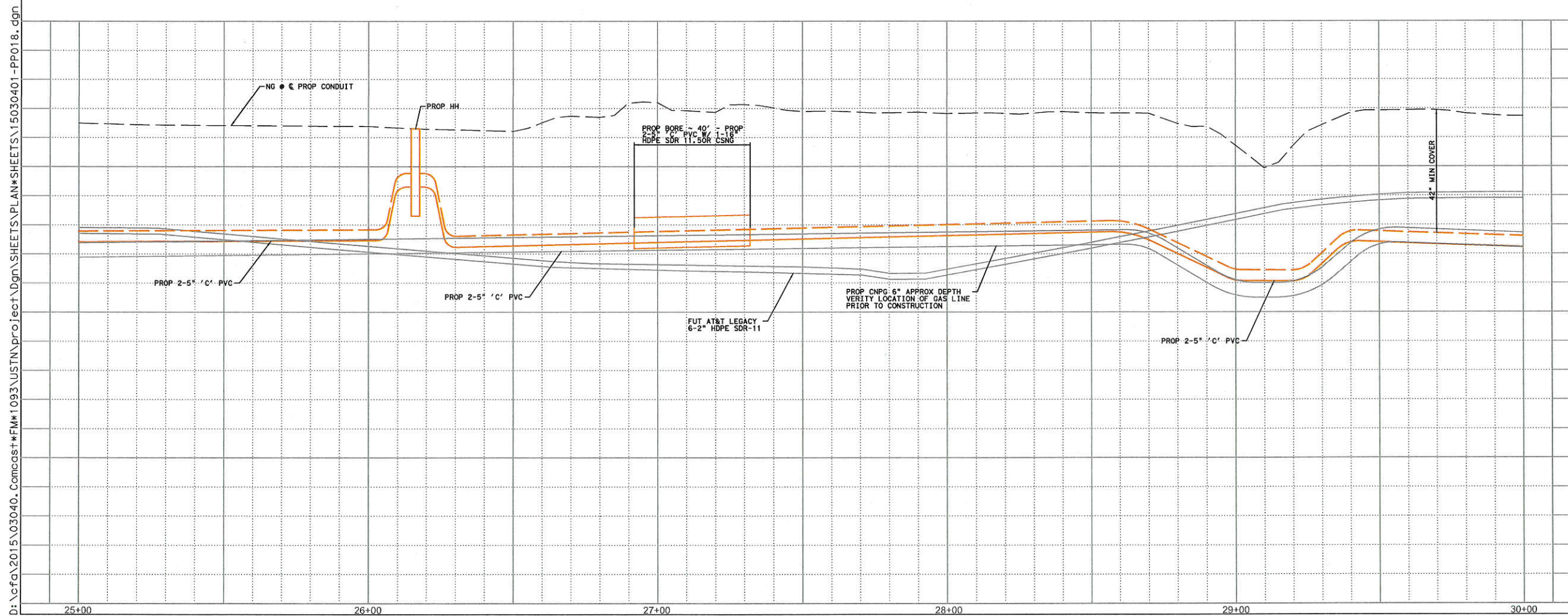
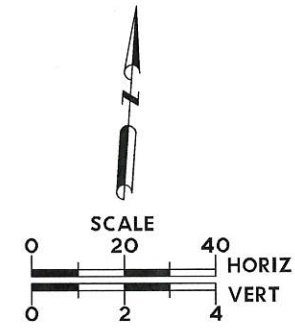
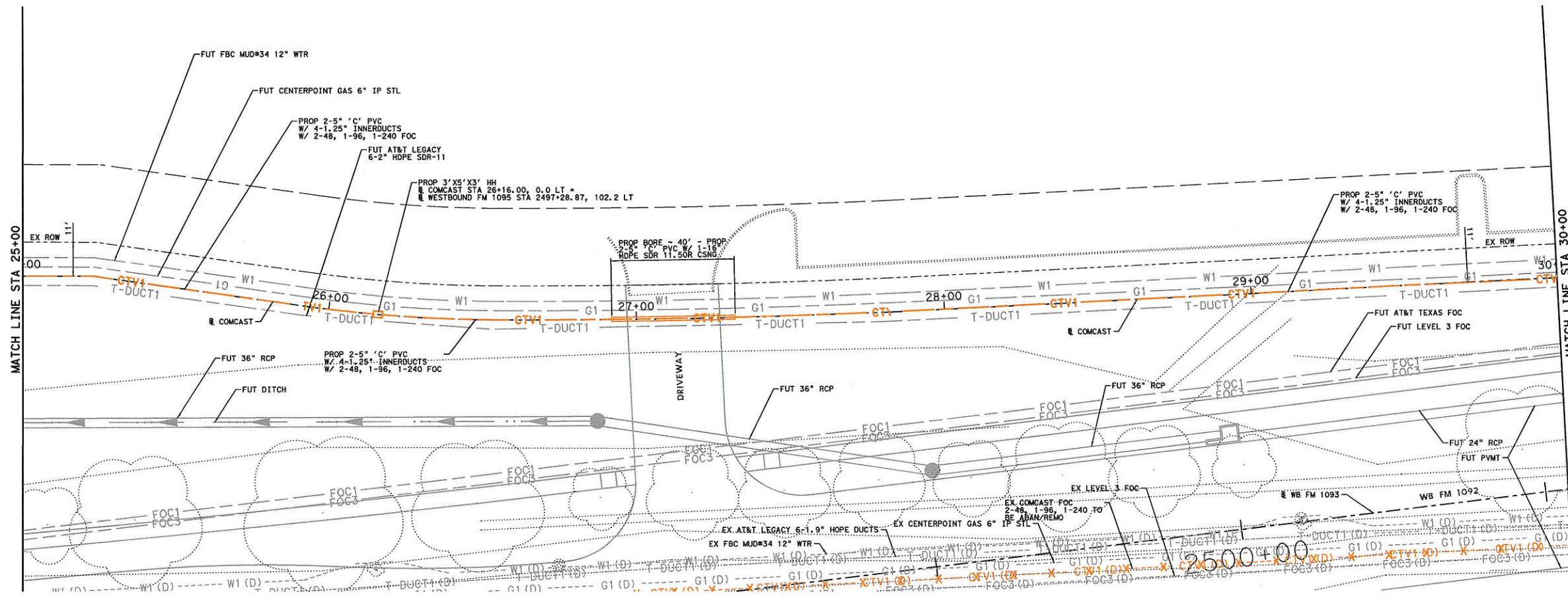
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SCALE: PLAN: 1"=40'
PROFILE VERT: 1"=4'
PROFILE HORIZ: 1"=40'
DRAWN BY: EMC
SHEET: 23

*USER: 150340*Comcast*FM1093*
PROJECT: COMCAST

FM 1093 WESTPARK EXTENSION

11/12/2015
3:36:18 PM

NOTE:
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INTERIM REVIEW
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Engineer: VINEETA JAYARAM
P.E. Serial No.: 101121
Date: 11/12/2015

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FM 1093 WESTPARK EXTENSION
WESTPARK N ROW
PLAN & PROFILE
SHT 13 OF 16

STA 25+00 TO STA 30+00

SCALE: PLAN: 1"=40'	DRAWN BY	SHEET
PROFILE VERT: 1"=4'	EMC	24
PROFILE HORZ: 1"=40'		

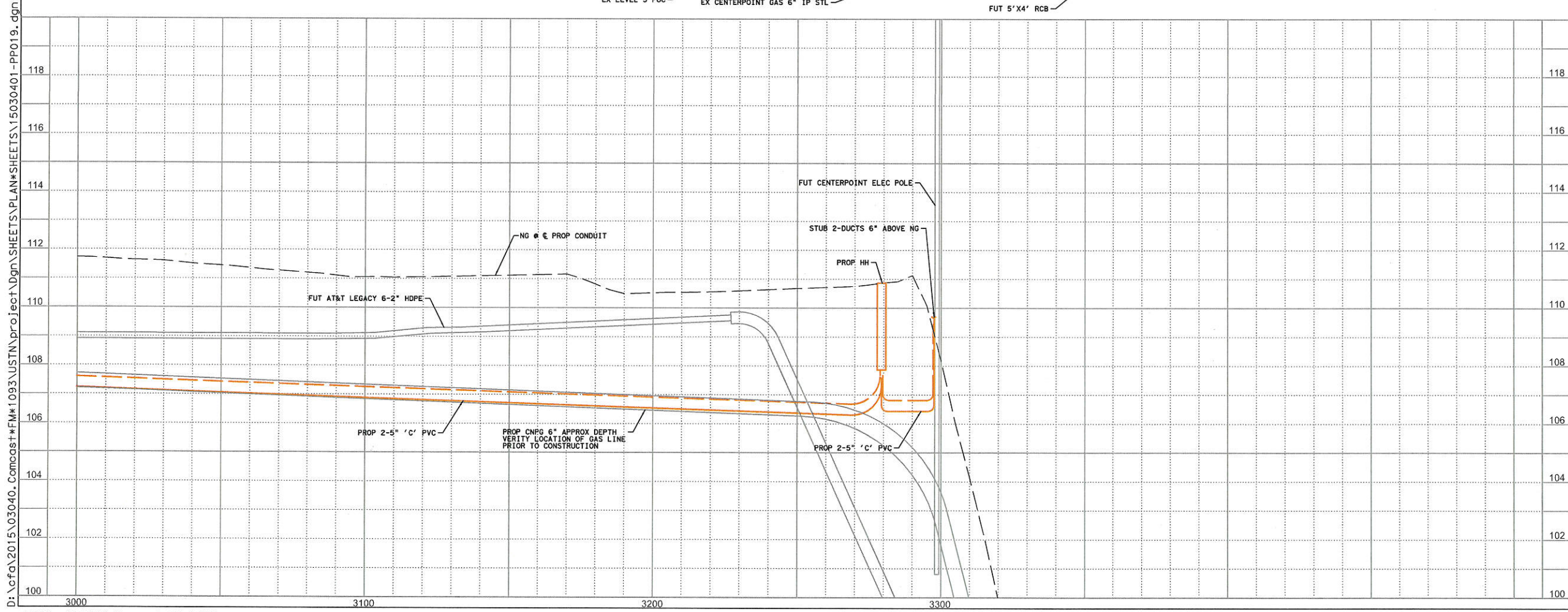
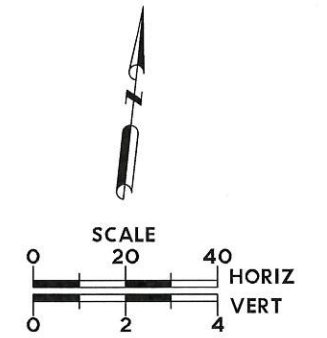
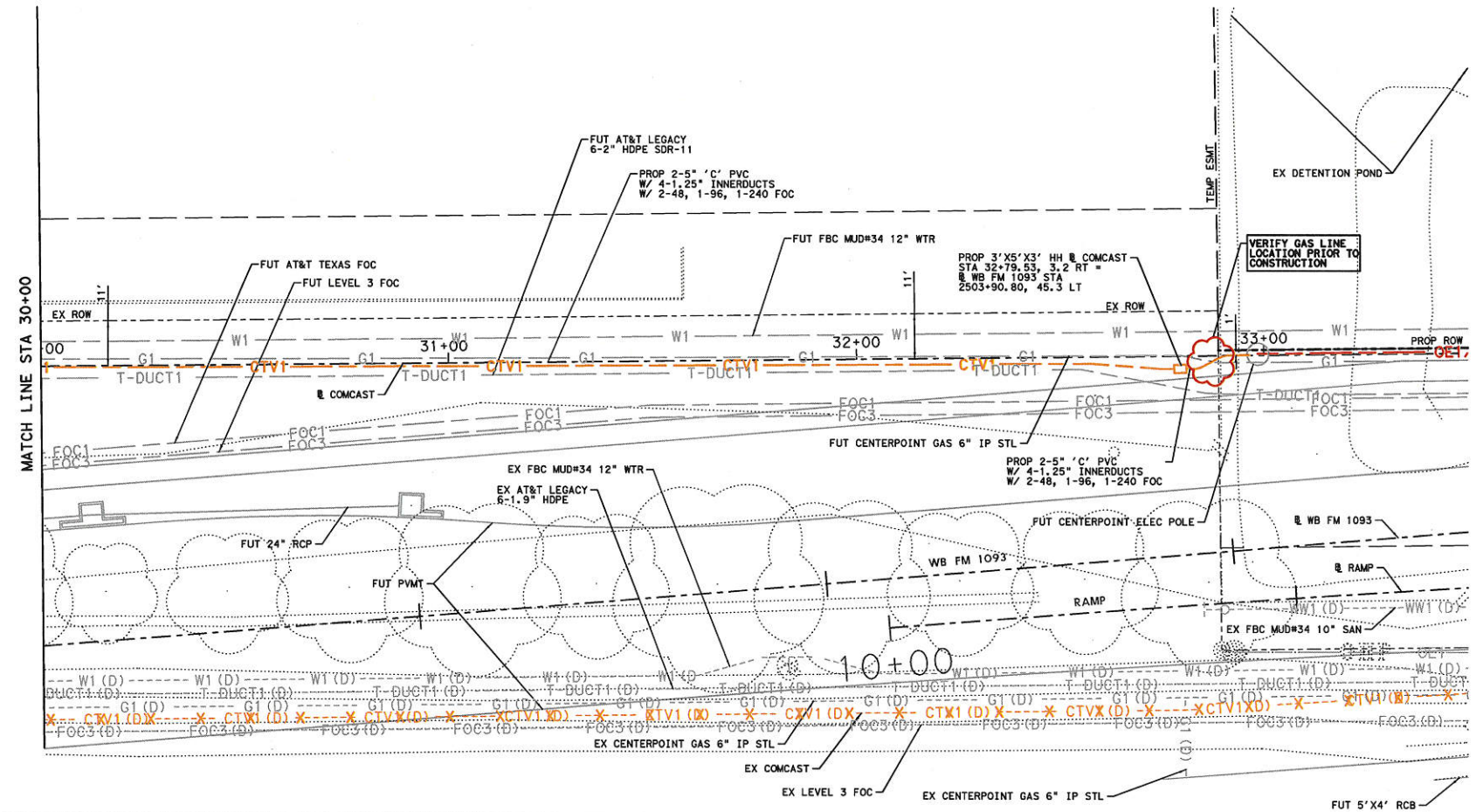
*USER: 150340*Comcast*FM*1093*
PROJECT: COMCAST

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FM 1093 WESTPARK EXTENSION

11/12/2015
3:55:53 PM

NOTE:
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Engineer: VINEETA JAYARAM
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Date: 11/12/2015

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FM 1093 WESTPARK EXTENSION
WESTPARK N ROW
PLAN & PROFILE
SHT 14 OF 16

STA 30+00 TO STA 33+50

SCALE: PLAN: 1"=40' PROFILE VERT: 1"=4' PROFILE HORIZ: 1"=40'	DRAWN BY EMC	SHEET 25
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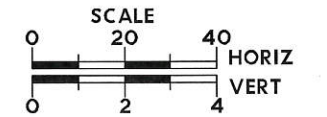
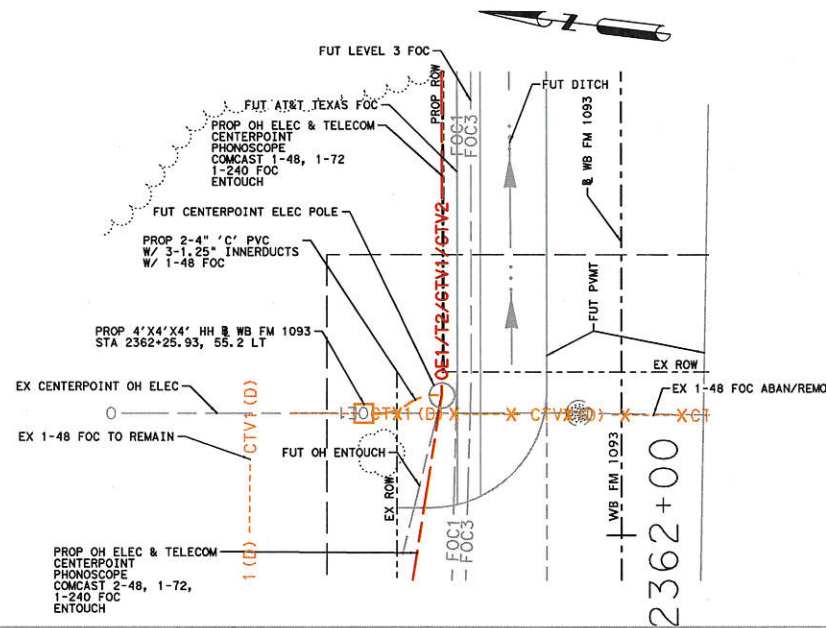
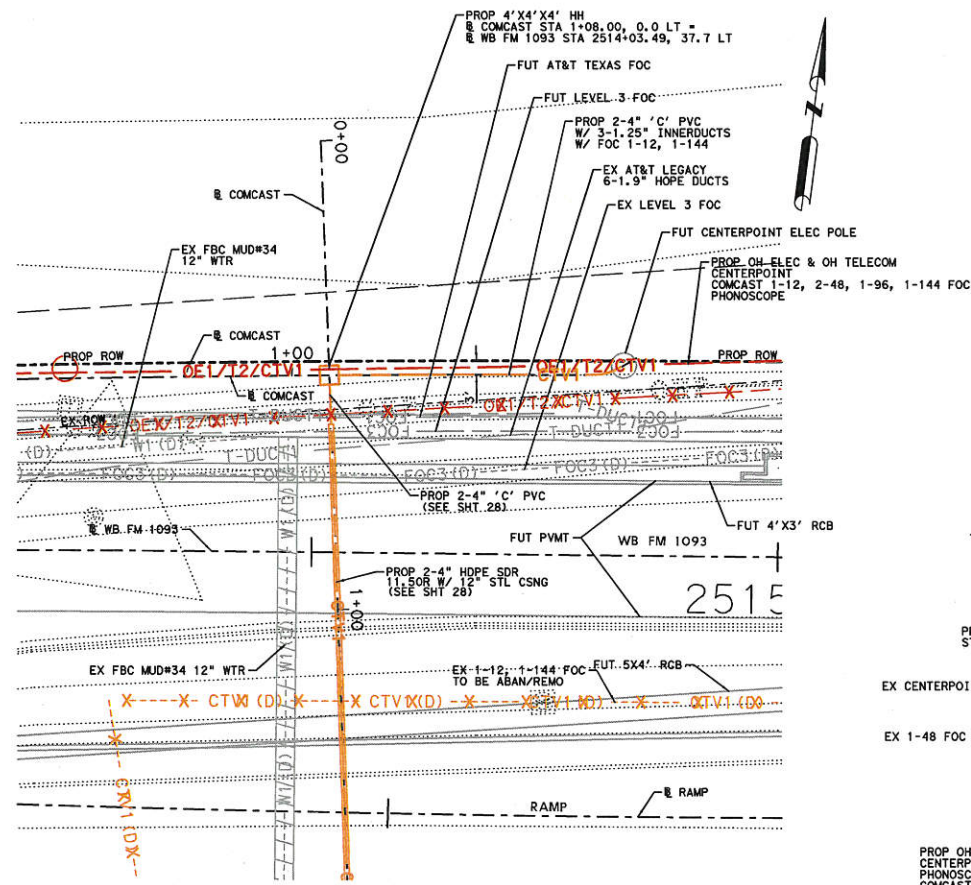
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*USER: 150340*Comcast*FM*1093*
PROJECT: COMCAST

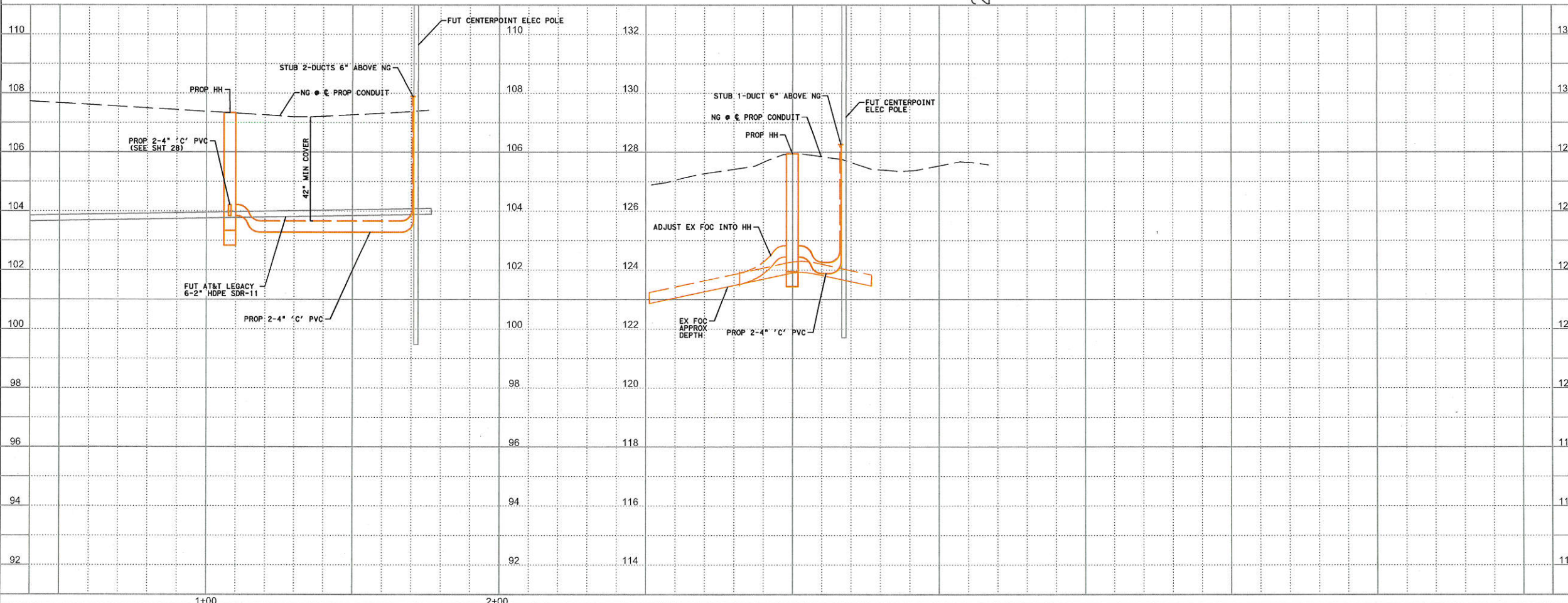
FM 1093 WESTPARK EXTENSION

11/12/2015 3:36:24 PM

NOTE:
ALL CENTERPOINT ELECTRIC POLE LOCATIONS ARE BASED ON PRELIMINARY DESIGN. CONTRACTOR TO CONTACT GARY BRAXTON AT (713) 945-4583 PRIOR TO CONSTRUCTION TO CONFIRM POLE LOCATIONS.



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INTERIM REVIEW
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 Engineer: VINEETA JAYARAM
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 Date: 11/12/2015

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FM 1093 WESTPARK EXTENSION
 WESTPARK N ROW
 PLAN & PROFILE
 SHT 16 OF 16


STA 2514+03 & STA 2362+30
 SCALE: PLAN: 1"=40'
 PROFILE VERT: 1"=4'
 PROFILE HORZ: 1"=40'
 DRAWN BY: EMC
 SHEET: 27

*USER: 150340*Comcast*FM1093*
 PROJECT: COMCAST

FM 1093 WESTPARK EXTENSION


UNDERGROUND QUANTITIES																
SHT NO	STATION LIMITS	TRENCH EXCAVATION PROTECTION	ADJUST BURIED CABLE	CONDUIT 2-4" 'C' PVC EQUIPPED W/ (3-1.25" HDPE)	CONDUIT 2-5" 'C' PVC EQUIPPED W/ (4-1.25" HDPE)	CONDUIT 2-4" HDPE SDR 11.50R EQUIPPED W/ (3-1.25" HDPE)	CSNG 16" HDPE SDR 11.50R	CSNG 12" STL SCHED 40	BURIED CABLE 12 FOC	BURIED CABLE 24 FOC	BURIED CABLE 48 FOC	BURIED CABLE 96 FOC	BURIED CABLE 144 FOC	BURIED CABLE 240 FOC	4X4X4 HANDHOLE	3X5X3 HANDHOLE
	STA XXX+XX TO STA XXX+XX	LF	LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) EA	(TELE) EA
12	STA 313+75, 150' LT TO STA 316+74, 137' LT	291	0	291	0	0	0	0	0	0	782	0	0	395	1	0
13	316+74, 137' LT TO 320+63, 142' LT	395	0	395	0	0	0	0	0	0	980	0	0	395	1	0
14 LT	334+11, 159' LT TO 335+10, 127' LT	108	10	108	0	0	0	0	0	208	0	0	0	0	1	0
14 RT	405+16, 195' LT TO 405+40, 182' LT	25	0	25	0	0	0	0	0	125	125	0	0	0	1	0
15	356+37	113	0	113	0	289	0	289	0	489	0	0	0	0	2	0
16	411+88	54	0	54	0	316	0	316	0	0	570	570	0	0	2	0
17	467+53	164	0	164	0	260	0	260	0	424	0	0	0	0	2	0
18	467+53 profile	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	471+71, 355' LT TO 476+07, 296' LT	446	0	0	446	0	0	0	0	0	892	496	0	496	1	0
20	476+07, 296' LT TO 481+07, 296' LT	427	0	0	496	0	69	0	0	0	1092	546	0	546	0	1
21	481+07, 296' LT TO 486+07, 293' LT	500	0	0	500	0	0	0	0	0	1000	500	0	500	0	0
22	486+07, 293' LT TO 491+06, 269' LT	436	0	0	495	0	64	0	0	0	1090	545	0	545	0	1
23	491+06, 269' LT TO 496+11, 232' LT	232	0	0	500	0	268	0	0	0	1000	500	0	500	0	0
24	496+11, 232' LT TO 501+15, 185' LT	445	0	0	495	0	40	0	0	0	1090	545	0	545	0	1
25	501+15, 185' LT TO 504+16, 164' LT	296	0	0	296	0	0	0	0	0	692	346	0	346	0	1
26	514+07	40	0	40	0	290	0	290	530	0	0	0	530	0	2	0
27 RT	362+26, 134' LT TO 362+30, 117' LT	15	0	15	0	0	0	0	0	0	115	0	0	0	1	0
27 LT	514+07, 132' LT TO 514+70, 132' LT	60	0	60	0	0	0	0	60	0	0	0	60	0	0	0
	TOTALS	4047	10	1265	3228	1155	441	1155	590	1246	9428	4048	590	4268	14	4

AERIAL QUANTITIES											
SHT NO	STATION LIMITS	OH CABLE 12 FOC	OH CABLE 24 FOC	OH CABLE 48 FOC	OH CABLE 72 FOC	OH CABLE 96 FOC	OH CABLE 144 FOC	OH CABLE 240 FOC	PLACE STRAND	OH CA REMOVAL	UG REMOVAL/ ABANDONED
	STA XXX+XX TO STA XXX+XX	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF	(TELE) LF
7	STA 300+00 TO STA 344+00	0	70	6187	0	0	0	3093	3093	3664	202
8	STA 344+00 TO STA 388+00	0	1215	6223	3182	0	0	4397	4397	4400	425
9	STA 388+00 TO STA 432+00	0	0	6676	1770	3309	0	4434	4434	4609	389
10	STA 432+00 TO STA 477+00	0	0	6856	0	3428	0	3428	3428	3821	729
11	STA 477+00 TO STA 521+00	608	0	3336	0	1668	608	1668	1668	968	3583
	TOTAL	608	1285	29278	4952	8405	608	17020	17020	17462	5328



INTERIM REVIEW

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FM 1093 WESTPARK EXTENSION

QUANTITY SUMMARY
SHT 1 OF 1

SCALE: NTS	DRAWN BY EMC	SHEET 28
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EXHIBIT "B"

UTILITY CONSTRUCTION COST ESTIMATE

Comcast FM 1093 - Construction and Material Estimate

Item #	Description	Quantities	Units	Labor		Material		Combined	
				Unit Cost	Subtotal	Unit Cost	Subtotal	Unit Cost	Subtotal
1	Trench Excavation Protection	4047	LF	\$ 2.00	\$ 8,094.00	\$ -	\$ -	\$ 2.00	\$ 8,094.00
2	Trench (2) 4" 'C' PVC	1265	LF	\$ 50.00	\$ 63,250.00	\$ 9.00	\$ 11,385.00	\$ 59.00	\$ 74,635.00
3	Trench (2) 5" 'C' PVC	2787	LF	\$ 55.00	\$ 153,285.00	\$ 10.00	\$ 27,870.00	\$ 65.00	\$ 181,155.00
3	Bore 12" Steel Casing equipped with (2) 4" HDPE	1155	LF	\$ 150.00	\$ 173,250.00	\$ 100.00	\$ 115,500.00	\$ 250.00	\$ 288,750.00
4	Bore 16" HDPE Casing equipped with (2) 5" PVC	441	LF	\$ 190.00	\$ 83,790.00	\$ 100.00	\$ 44,100.00	\$ 290.00	\$ 127,890.00
5	Pull (3) 1.25" Innerduct	2420	LF	\$ 0.92	\$ 13,358.40	\$ 0.90	\$ 4,356.00	\$ 1.82	\$ 17,714.40
6	Pull (4) 1.25" Innerduct	3228	LF	\$ 0.92	\$ 23,758.08	\$ 0.90	\$ 5,810.40	\$ 1.82	\$ 29,568.48
7	Place 3'x5'x3' Handhole	4	EA	\$ 700.00	\$ 2,800.00	\$ 600.00	\$ 2,400.00	\$ 1,300.00	\$ 5,200.00
8	Place 4'x4'x4' Handhole	14	EA	\$ 800.00	\$ 11,200.00	\$ 700.00	\$ 9,800.00	\$ 1,500.00	\$ 21,000.00
9	Place UG 12 ct. Fiber Optic Cable	590	LF	\$ 1.00	\$ 590.00	\$ 0.22	\$ 129.80	\$ 1.22	\$ 719.80
10	Place UG 24 ct. Fiber Optic Cable	1246	LF	\$ 1.00	\$ 1,246.00	\$ 0.28	\$ 348.88	\$ 1.28	\$ 1,594.88
11	Place UG 48 ct. Fiber Optic Cable	9428	LF	\$ 1.00	\$ 9,428.00	\$ 0.37	\$ 3,488.36	\$ 1.37	\$ 12,916.36
12	Place UG 96 ct. Fiber Optic Cable	4048	LF	\$ 1.00	\$ 4,048.00	\$ 0.65	\$ 2,631.20	\$ 1.65	\$ 6,679.20
13	Place UG 144 ct. Fiber Optic Cable	590	LF	\$ 1.00	\$ 590.00	\$ 0.85	\$ 501.50	\$ 1.85	\$ 1,091.50
14	Place UG 240 ct. Fiber Optic Cable	4268	LF	\$ 1.00	\$ 4,268.00	\$ 1.05	\$ 4,481.40	\$ 2.05	\$ 8,749.40
15	Place Aerial Cables (2-48 FOC, 240 FOC)	3023	LF	\$ 1.50	\$ 4,534.50	\$ 1.79	\$ 5,411.17	\$ 3.29	\$ 9,945.67
16	Place Aerial Cables (24 FOC, 2-48 FOC, 240 FOC)	1285	LF	\$ 1.50	\$ 1,927.50	\$ 2.07	\$ 2,659.95	\$ 3.57	\$ 4,587.45
17	Place Aerial Cables (2-48 FOC, 72 FOC, 240 FOC)	611	LF	\$ 1.50	\$ 916.50	\$ 2.29	\$ 1,399.19	\$ 3.79	\$ 2,315.69
18	Place Aerial Cables (48 FOC, 72 FOC, 240 FOC)	4120	LF	\$ 1.50	\$ 6,180.00	\$ 1.92	\$ 7,910.40	\$ 3.42	\$ 14,090.40
19	Place Aerial Cables (48 FOC, 2-72 FOC, 240 FOC)	220	LF	\$ 1.50	\$ 330.00	\$ 2.50	\$ 550.00	\$ 4.00	\$ 880.00
20	Place Aerial Cables (48 FOC, 2-96 FOC, 240 FOC)	643	LF	\$ 1.50	\$ 964.50	\$ 2.72	\$ 1,748.96	\$ 4.22	\$ 2,713.46
21	Place Aerial Cables (2-48 FOC, 96 FOC, 240 FOC)	6510	LF	\$ 1.50	\$ 9,765.00	\$ 2.44	\$ 15,884.40	\$ 3.94	\$ 25,649.40
22	Place Aerial Cables (12 FOC, 2-48 FOC, 96 FOC, 144 FOC, 240 FOC)	608	LF	\$ 1.50	\$ 912.00	\$ 3.51	\$ 2,134.08	\$ 5.01	\$ 3,046.08
23	Remove OH Cables	17462	LF	\$ 2.00	\$ 34,924.00	\$ -	\$ -	\$ 2.00	\$ 34,924.00
24	Removal/abandonment UG cable	5328	LF	\$ 2.00	\$ 10,656.00	\$ -	\$ -	\$ 2.00	\$ 10,656.00

Comcast FM 1093 - Construction and Material Estimate

Item #	Description	Quantities	Units	Labor		Material		Combined	
				Unit Cost	Subtotal	Unit Cost	Subtotal	Unit Cost	Subtotal
25	Splice - 12 FOC - 1 cables (unit is based on splicing each end of cable. (times 2 per cable))	24	EA	\$ 30.00	\$ 720.00	\$ -	\$ -	\$ 30.00	\$ 720.00
26	Splice - 24 FOC - 4 cables (unit is based on splicing each end of cable. (times 2 per cable))	192	EA	\$ 30.00	\$ 5,760.00	\$ -	\$ -	\$ 30.00	\$ 5,760.00
27	Splice - 48 FOC - 10 cables (unit is based on splicing each end of cable. (times 2 per cable))	960	EA	\$ 30.00	\$ 28,800.00	\$ -	\$ -	\$ 30.00	\$ 28,800.00
28	Splice - 72 FOC - 1 cables (unit is based on splicing each end of cable. (times 2 per cable))	144	EA	\$ 30.00	\$ 4,320.00	\$ -	\$ -	\$ 30.00	\$ 4,320.00
29	Splice - 96 FOC - 4 cables (unit is based on splicing each end of cable. (times 2 per cable))	768	EA	\$ 30.00	\$ 23,040.00	\$ -	\$ -	\$ 30.00	\$ 23,040.00
30	Splice - 144 FOC - 1 cables (unit is based on splicing each end of cable. (times 2 per cable))	288	EA	\$ 30.00	\$ 8,640.00	\$ -	\$ -	\$ 30.00	\$ 8,640.00
31	Splice - 240 FOC - 5 cables (unit is based on splicing each end of cable. (times 2 per cable))	2400	EA	\$ 30.00	\$ 72,000.00	\$ -	\$ -	\$ 30.00	\$ 72,000.00
Total									\$ 1,037,846.17

Comcast FM 1093 - Design

Description	Hours	Rate	Subtotal	Cost
Utility Coordination/Conflict Analysis				\$ 9,717.84
Project Manager	20	\$ 193.50	\$ 3,870.00	
Utility Specialist	32	\$ 134.37	\$ 4,299.84	
Administrative	16	\$ 96.75	\$ 1,548.00	
Utility Agreement Preparation/Estimate				\$ 12,354.00
Project Manager	4	\$ 195.00	\$ 780.00	
Utility Specialist	80	\$ 135.00	\$10,800.00	
Administrative	8	\$ 96.75	\$ 774.00	
Underground Design				\$ 38,255.00
Project Manager	20	\$ 195.00	\$ 3,900.00	
Utility Specialist	85	\$ 135.00	\$11,475.00	
Senior Project Designer	208	\$ 110.00	\$22,880.00	
Overhead Plans				\$ 33,690.00
Project Manager	16	\$ 195.00	\$ 3,120.00	
Utility Specialist	70	\$ 135.00	\$ 9,450.00	
Senior Project Designer	192	\$ 110.00	\$21,120.00	
Subtotal for design				\$ 94,016.84
Reimbursables				\$ 983.16
Total				\$ 95,000.00

EXHIBIT "C"

UTILITY'S SCHEDULE OF WORK AND
ESTIMATED DATE OF COMPLETION

FM 1093 - Comcast schedule

Task Name	Duration	Start	Finish	Nov	Dec	Jan	Feb	Mar	Apr
Agreement approval	6 wks	Mon 11/2/15	Fri 12/11/15	[Gantt bar from Mon 11/2/15 to Fri 12/11/15]					
Submit and obtain TXDOT Permit for overhead and underground work	4 wks	Mon 12/14/15	Fri 1/8/16	[Gantt bar from Mon 12/14/15 to Fri 1/8/16]					
Underground conduit construction	40 days	Mon 1/11/16	Fri 3/4/16	[Gantt bar from Mon 1/11/16 to Fri 3/4/16]					
Install fiber optic cable into conduits and manholes	5 days	Mon 3/7/16	Fri 3/11/16	[Gantt bar from Mon 3/7/16 to Fri 3/11/16]					
Aerial construction	45 days	Mon 1/11/16	Fri 3/11/16	[Gantt bar from Mon 1/11/16 to Fri 3/11/16]					
Splice fiber optic cable for both underground and aerial lines	30 days	Mon 3/14/16	Fri 4/22/16	[Gantt bar from Mon 3/14/16 to Fri 4/22/16]					

*** Schedule is contingent upon the completion of the approved agreement